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People at Work

Occupational Employment Statistics

NEW HAMPSHIRE DEPARTMENT OF EMPLOYMENT SECURITY

MANUFACTURING OCCUPATIONS 1980

NEW HAMPSHIRE STAFFING PATTERNS

IN

MANUFACTURING

INDUSTRIES

1980

An Occupational Employment Statistics Survey

Conducted By The

Economic Analysis and Reports Section

NEW HAMPSHIRE DEPARTMENT OF EMPLOYMENT SECURITY

In Cooperation With The

U. S. BUREAU OF LABOR STATISTICS

AND THE

EMPLOYMENT AND TRAINING ADMINISTRATION

Using A Grant From The

NEW HAMPSHIRE OFFICE OF EMPLOYMENT AND TRAINING

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PREFACE

Our sincere appreciation is extended to those employers who participated in this survey. Without their support, this publication would not have been possible.

We also would like to express our thanks to the United States Department of Labor, both at the regional level in Boston, Mass. and the national level in Washington, D. C., for their help in the Federal-State Cooperative effort.

This report was prepared by the New Hampshire Occupational Employment Statistics (OES) Program staff: Arthur French, James Leatherman and Madaline Shanelaris, with programming and data processing support provided by Geraldine Hudon.

Your comments and suggestions as well as requests for more information are most welcome. We may be reached at the following address:

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INTRODUCTION

The United States Department of Labor initiated the OES program in mid-1971 to meet the increasing demand for current occupational data. The program is based upon the collection of occupational employment data by mail thereby sampling selected sectors of the economy during recurring three year cycles.

Publications of the first survey cycle include: Government (1974-1975); Trade (1976); Manufacturing (1977); Construction, Finance, Insurance and Real Estate, and Services (1978); and Educational Services (1978). Portions of regulated industries were surveyed in 1976 and supplemental staffing pattern reports, by county, were published for all these industries except government and education.

This report is the fifth in the second survey cycle and was compiled from usable returns from the original mailing plus two follow-ups. Others include: Government (1977 and 1979), Regulated Industries (1979), Trade (1979), and Hospitals (1980).

As used in this report, Standard Industrial Classification (SIC) defines industries according to composition and structure and spans the entire field of economic activities. Industrially classified statistics are used not only to show how industries have performed over past years but to indicate emerging and rapidly growing industries. The data obtained from these surveys is being used as input to update the OES Industry/Occupation Matrix. It, in turn, provides the base for projecting occupational employment in the non-farm sector of the economy or any industry subdivision thereof.

The goal of the OES Program is to assist in the development of training programs to meet both current and long-range personnel needs. To that end, it is an invaluable tool enabling employers, educational planners, manpower analysts,economists and other users to intelligently deal with inequities in the supply and demand of workers in specific occupations on the local, state, or national level. Some industries could not be published since there were insufficient usable returns and the information could be misleading or publication would jeopardize the confidentiality of data provided by some of the firms reporting.

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SUMMARY

OCCUPATIONAL EMPLOYMENT

MANUFACTURING IN NEW HAMPSHIRE

(SIC 20-39)

The manufacturing division includes establishments engaged in the mechanical or chemical transformation of materials or substances into new products. These establishments are usually described as plants, factories, or mills and characteristically use power driven machines and materials handling equipment. Establishments engaged in assembling component parts of manufactured products are also considered manufacturing if the new product is neither a structure nor other fixed improvement. Also included is the blending of materials such as lubricating oils, plastics, resins, or liquors.

During the occupational survey period of the second quarter of 1980 there were 116,736 wage and salary workers employed in all manufacturing industries in New Hampshire. This represented more than a 17 percent increase (or 17,452 additional jobs) from the previous manufacturing survey conducted in 1977. The largest group of workers (79,963) were engaged in production and production related activities which made up more than 68 percent of the total employment.

Durable goods manufacturing accounted for virtually all of the employment growth in all of the manufacturing industries over the last three years with an increase of 17,710 workers or a growth rate of more than 31 percent. Nondurable goods manufacturing remained about the same, sustaining a very slight lost of less than one percent. The largest numerical increase of workers in a major industry group was 7,699 new workers reported in industry 35 (Machinery, Except Electrical) representing a growth rate of almost 50 percent. This was dominated by an additional 5,230 workers reported in industry subgroup 357 (Office, Computing and Accounting Machines) representing almost a 100 percent growth rate. This was largely due to new and expanding firms engaged in manufacturing electronic computing equipment. The second largest growth rate in a major industry group was experienced in industry 36 (Electrical and Electronic Machinery, Equipment, and Supplies) with 5,031 new workers or a growth rate of over 34 percent. Within this major group, industry 367 (Electronic Components and Accessories) represented the largest growth with 2,568 new workers, or an increase of almost 52 percent from the previous survey three years ago.

Some of the industries, particularly in the nondurable goods sector experienced slight to moderate losses in employment over the last three years. This was especially noted in the Leather and Leather Products manufacturing group (Industry 31) where 1,458 fewer workers were reported. All but 100 of this decrease was in industry 314 (Footwear, Except Rubber). Even though industry 30 (Rubber and Miscellaneous Plastics Products) remained the same in the last three years, industry 302 (Rubber and Plastics Footwear) within this major group sustained a substantial loss of 1,096 workers representing about a 42 percent decrease in employment. Most of the losses in nondurable goods manufacturing were in activities relating to footwear and were due largely to increased foreign shoe imports in recent years. The one major industry group in nondurable goods manufacturing that enjoyed a substantial employment gain during the last three years was industry 27 (Printing, Publishing, and Allied Industries) with 1,403 new workers or a growth rate of 29 percent.

MANUFACTURING IN NEW HAMPSHIRE

SIC 20-39

EMPLOYMENT CHANGES BETWEEN OES SURVEY PERIODS
(SECOND QUARTER 1977 - SECOND QUARTER 1980)

SIC CODE	INDUSTRY DESCRIPTION	2nd. Qtr. 1977 ESTIMATED EMPLOYMENT	2nd. Qtr. 1980 ESTIMATED EMPLOYMENT	NUMERICAL CHANGE	PERCENT CHANGE
20-39	ALL MANUFACTURING	99,284*	116,736*	17,452	17.6
24,25,32-39	DURABLE GOODS MFG.	56,594*	74,304*	17,710	31.3
24	LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE	4,688	4,645	- 43	- 0.9
242	Sawmills and Planing Mills	1,595	1,711	116	7.3
243	Millwork, Veneer, Plywood, and Structural Wood Members	969	916	- 53	- 5.5
25	FURNITURE AND FIXTURES	1,890	1,881	- 9	- 0.5
251	Household Furniture	1,538	1,463	- 75	- 4.9
32	STONE, CLAY, GLASS, AND CONCRETE PRODUCTS	2,402	2,939	537	22.4
329	Abrasive, Asbestos, and Miscellaneous Nonmetalic Mineral Products	1,297	1,278	- 19	- 1.5
33	PRIMARY METAL INDUSTRIES	2,515	3,741	1,226	48.7
335	Rolling, Drawing, and Extruding of Nonferrous Metals	576	1,191	615	106.8
336	Nonferrous Foundries (Castings)	687	1,054	367	53.4
34	FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND TRANSPORTATION EQUIPMENT	6,543	7,413	870	13.3
344	Fabricated Structural Metal Products	1,552	2,169	617	39.8
349	Miscellaneous Fabricated Metal Products	1,285	1,419	134	10.4
35	MACHINERY, EXCEPT ELECTRICAL	15,743	23,442	7,699	48.9
353	Construction, Mining, and Materials Handling Machinery and Equipment	893	857	- 38	- 4.2
354	Metalworking Machinery and Equipment	2,465	3,110	645	26.2
355	Special Industry Machinery, Except Metalworking Machinery	3,920	4,112	192	4.9
356	General Industrial Machinery and Equipment	2,464	3,456	992	40.3
357	Office, Computing, and Accounting Machines	5,261	10,491	5,230	99.4
359	Miscellaneous Machinery, Except Electrical	663	1,118	455	68.6

MANUFACTURING IN NEW HAMPSHIRE

(SIC 20-39)

EMPLOYMENT CHANGES BETWEEN OES SURVEY PERIODS
(SECOND QUARTER 1977 - SECOND QUARTER 1980)

SIC CODE	INDUSTRY DESCRIPTION	2nd. Qtr. 1977 ESTIMATED EMPLOYMENT	2nd. Qtr. 1980 ESTIMATED EMPLOYMENT	NUMERICAL CHANGE	PERCENT CHANGE
36	ELECTRICAL AND ELECTRONIC MACHINERY, EQUIPMENT, AND SUPPLIES	14,741	19,772	5,031	34.1
362	Electrical Industrial Apparatus	602	1,010	408	67.8
364	Electric Lighting and Wiring Equipment	2,050	2,936	886	43.2
366	Communication Equipment	5,405	6,401	996	18.4
367	Electronic Components and Accessories	4,963	7,531	2,568	51.7
369	Miscellaneous Electrical Machinery, Equipment and Supplies	882	1,151	269	30.5
38	INSTRUMENTS AND RELATED SUPPLIES	6,086	7,668	1,582	26.0
381	Engineering and Scientific Instruments	1,077	1,691	614	57.0
382	Measuring and Controlling Instruments	3,828	4,452	624	16.3
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	1,483	2,004	521	35.1
399	Miscellaneous Manufacturers	824	973	149	18.1
20-23,26-31	NONDURABLE GOODS MFG.	42,690*	42,432*	- 258	- 0.6
20	FOOD AND KINDRED PRODUCTS	3,247	2,937	- 310	- 9.5
208	Beverages	1,063	1,077	14	0.1
22	TEXTILE MILL PRODUCTS	4,934	4,885	- 49	- 1.0
223	Broad Woven Fabric Mills, Wool	1,262	1,299	37	2.9
224	Narrow Fabrics and Other Smallwares Mills: Cotton, Wool, Silk, and Man-Made Fiber	909	1,062	153	16.8
225	Knitting Mills	877	814	- 63	- 7.2
23	APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS	3,041	2,880	- 161	- 5.3
233	WOMEN'S, Misses', and Juniors Outerwear	2,406	1,989	- 417	- 17.3

MANUFACTURING IN NEW HAMPSHIRE

(SIC 20-39)

EMPLOYMENT CHANGES BETWEEN OES SURVEY PERIODS (SECOND QUARTER 1977 - SECOND QUARTER 1980)

SIC CODE	INDUSTRY DESCRIPTION	2nd. Qtr. 1977 ESTIMATED EMPLOYMENT	2nd. Qtr. 1980 ESTIMATED EMPLOYMENT	NUMERICAL CHANGE	PERCENT CHANGE
26	PAPER AND ALLIED PRODUCTS	6,263	6,469	206	3.3
262	Paper Mills, Except Building Paper Mills	3,280	3,228	- 52	- 1.6
27	PRINTING, PUBLISHING, AND ALLIED INDUSTRIES	4,840	6,243	1,403	29.0
271	Newspapers: Publishing, Publishing and Printing	1,503	1,632	129	8.6
275	Commercial Printing	1,872	2,428	556	29.7
30	RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS	8,621	8,623	2	-
302	Rubber and Plastics Footwear	2,614	1,518	-1,096	- 41.9
306	Fabricated Rubber Products Not Elsewhere Classified	704	1,177	473	67.2
307	Miscellaneous Plastics Products	5,303	5,928	625	11.8
31	LEATHER AND LEATHER PRODUCTS	11,001	9,543	-1,458	- 13.3
314	Footwear, Except Rubber	9,382	8,024	-1,358	- 14.5

* Totals include estimates for the entire survey, including industries which have not met publication criteria.

THE TWENTY OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS

LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
1	10000	Managers and Officers	6,941	5.9
2	55U84	Electrical and Electronic Assemblers	6,703	5.7
3	55B29	Supervisors, Nonworking	3,490	3.0
4	55B58	Inspectors	3,257	2.8
5	55C39	Production Packagers, Hand or Machine	2,441	2.1
6	32004	Electrical and Electronic Technicians	2,048	1.8
7	61368	Secretaries	2,019	1.7
8	71000	Sales Representatives, Sales Agents, and/or Sales Associates	1,583	1.4
9	55C76	Sewing Machine Operators, Regular Equipment - - Garment	1,474	1.3
10	61333	General Clerks, Office	1,304	1.1
11	55B86	Maintenance Repairers, General Utility	1,223	1.0
12	55L01	Machine Tool Operators, Combination	1,197	1.0
13	21005	Electrical and Electronic Engineers	1,123	1.0
14	62004	Shipping Packers	1,072	0.9
15	41000	Janitors, Porters, and Cleaners	1,046	0.9
16	62003	Production Clerks and/or Coordinators	1,042	0.9
17	55J63	Grinding and/or Abrading Machine Operators, Metal	1,032	0.9
18	21006	Industrial Engineers	1,029	0.9
19	55Q16	Stitchers, Standard Machine	1,027	0.9
20	62008	Stock Clerks, Stockroom, Warehouse or Storage Yard	1,026	0.9

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
TOTAL ALL OCCUPATIONS		116,736	100.00
MANAGERS AND OFFICERS	10000	6,941	5.94
PROFESSIONAL OCCUPATIONS	20000	8,497	7.28
Chemical Engineers	21003	99	.08
Civil Engineers	21004	13	.01
Electrical and Electronic Engineers	21005	1,123	.96
Industrial Engineers	21006	1,029	.88
Mechanical Engineers	21008	766	.66
Metallurgists and Metallurgical Engineers	21009	11	.01
All Other Engineers	21900	812	.70
Mathematicians	22103	11	.01
All Other Mathematical Scientists	22199	2	*
Chemists	22201	82	.07
Physicists	22205	25	.02
All Other Physical Scientists	22299	1	*
All Life Scientists	22300	11	.01
All Other Natural and Mathematical Scientists	22999	4	*
Systems Analysts, Electronic Data Processing	24000	85	.07
Systems Analysts, Business	24001	96	.08
Photographers	25200	15	.01
Purchasing Agents and/or Buyers	25300	601	.51
Accountants and Auditors	25401	859	.74
Commercial Artists	25426	107	.09
Cost Estimators, Engineering	25427	105	.09
Writers and/or Editors	25436	387	.33
Lawyers	25446	14	.01
Nurses, Professional	25457	68	.06
Personnel and labor Relations Specialists	25465	333	.29
Reporters and Correspondents	25476	183	.16
Designers	25489	220	.19
Estimators, Printing Services	25540	20	.02
Contract Administrators	25551	182	.16
All Other Professional Workers	29000	1,233	1.06
TECHNICAL OCCUPATIONS	30000	4,485	3.84
Computer Programmers	31000	90	.08
Computer Programmers, Business	31001	154	.13

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Computer Programmers, Scientific and Technical	31002	21	.02
Drafters	32003	711	.61
Electrical and Electronic Technicians	32004	2,048	1.75
Radiographers	32009	12	.01
Mechanical Engineering Technicians	32010	239	.20
Tool Programmers, Numerical Control	32011	103	.09
Industrial Engineering Technicians	32019	76	.07
All Other Engineering Technicians	32900	428	.37
Timber Cruisers	33005	12	.01
All Other Science Technicians	33900	156	.13
All Other Technicians	39000	435	.37
SERVICE OCCUPATIONS	40000	1,738	1.49
Janitors, Porters, and Cleaners	41000	1,046	.90
Guards and Doorkeepers	42000	344	.29
Food Service Workers	43000	42	.04
Supervisors, Nonworking--Service Only	44014	165	.14
All Other Service Workers	49000	141	.12
PRODUCTION OCCUPATIONS	50000	79,963	68.50
Mechanics, Automotive	51008	97	.08
Electric Motor Repairers	51020	10	.01
Electrical Instrument Repairers	51023	14	.01
Marine Mechanics and/or Repairers	51042	19	.02
Mechanics, Maintenance	51043	988	.85
Refrigeration Mechanics and/or Air Conditioning Mechanics	51052	34	.03
Coin Machine Servicers and/or Vending Machine Repairers	51056	35	.03
Knitting Machine Fixers	51061	34	.03
Loom Fixers	51062	96	.08
Section Repairers and Setters	51065	35	.03
Mechanics, Sewing Machine	51070	36	.03
Data Processing Machine Repairers	51079	30	.03
All Other Mechanics and Repairers	51900	118	.10
Developers and/or Projection Printers	52002	12	.01
Pressers, Hand	53014	42	.04
Pressers, Machine	53015	72	.06

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Truck Drivers	54000	983	.84
Cabinetmakers	55A38	359	.31
Carpenters	55A47	326	.28
Cooks and/or Cookers	55A79	34	.03
Crane, Derrick, and Hoist Operators	55A82	50	.04
Delivery and/or Route Workers	55A87	445	.38
Drawer-in, Hand	55A91	17	.01
Electricians	55B12	495	.42
Filers, Grinders, Buffers, Chippers, Cleaners, and/or Polishers	55B19	908	.78
Supervisors, Nonworking	55B29	3,490	2.99
Gear Cutting, Gear Grinding and/or Gear Shaping Machine Operators	55B44	52	.05
Glaziers	55B48	18	.02
Heavy Equipment Operators	55B52	50	.04
Riggers	55B54	53	.05
Industrial Truck Operators	55B57	785	.67
Inspectors	55B58	3,257	2.79
Instrument Repairers	55B62	46	.04
Instructors, Apparel and Textile Machines	55B65	20	.02
Jewelers and/or Silversmiths	55B66	10	.01
Lens Grinders	55B70	85	.07
Machinists	55B84	988	.85
Maintenance Repairers, General Utility	55B86	1,223	1.05
Helpers, Trades	55B87	453	.39
Metal Fabricators	55B91	141	.12
Mixers	55B93	31	.03
Millwrights	55B95	266	.23
Oilers	55C06	79	.07
Order Fillers	55C08	519	.44
Oven Operators	55C10	17	.01
Painters, Maintenance	55C12	60	.05
Pourers, Metal	55C27	86	.07
Electroplaters	55C29	247	.21
Plumbers and/or Pipefitters	55C30	169	.15
Press Operators and/or Plate Printers	55C36	77	.07
Production Packagers, Hand or Machine	55C39	2,441	2.09
Refractory Materials Repairers	55C46	22	.02
Sandblasters and/or Shotblasters	55C64	81	.07

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Scrappers and/or Strippers, Hand or Machine	55C68	24	.02
Sewing Machine Operators, Regular Equipment -- Garment	55C76	1,474	1.26
Sewing Machine Operators, Special Equipment and/or Automatic Equipment -- Garment	55C77	119	.10
Sewing Machine Operators, Regular Equipment -- Nongarment	55C78	761	.65
Sewing Machine Operators, Special and/or Automatic Equipment -- Nongarment	55C79	192	.17
Sheet Metal Workers	55C81	237	.20
Spooler Operators, Automatic	55C88	15	.01
Stationary Boiler Firers	55C90	91	.08
Stationary Engineers	55C91	70	.06
Structural Steel Workers	55C96	23	.02
Skivers	55D04	92	.08
Tool and Die Makers	55D23	740	.63
Logging Tractor Operators	55D27	101	.09
Welders and/or Flamecutters	55D46	864	.74
Weavers	55D48	371	.32
Offset Lithographic Press Operators, Sheet, Roll or Web Fed	55D56	571	.49
Platemakers	55D57	64	.05
Strippers, Printing and Publishing	55D58	143	.12
Camera Operators, Printing	55D59	116	.10
Opticians, Dispensing and/or Optical Mechanics	55D69	50	.04
Furniture Finishers	55D86	13	.01
Trimmers, Machine	55D94	127	.11
Assemblers for Puller-Over, Hand or Machine	55E25	150	.13
Back Tenders	55E32	128	.11
Baker Helpers	55E37	135	.12
Power Barker Operators	55E38	69	.06
Battery Loaders	55E54	28	.02
Beam Warper Tenders, Automatic and/or Beamers	55E58	32	.03
Beater Engineers	55E61	44	.04
Beaters	55E62	54	.05
Bed Lasters	55E63	53	.05
Blending Machine Operators	55E84	21	.02
Blockmaking Machine Operators	55E86	41	.04

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Bobbin Winders, Machine or Sewing Machine	55E90	15	.01
Boners, Meat	55E95	14	.01
Boring Machine Operators, Wood	55E98	57	.05
Bottom Fillers	55F03	67	.06
Braiding Machine Operators	55F09	10	.01
Breakers	55F14	18	.02
Buffers, Hides or Skins	55F23	39	.03
Buffers, Shoe Parts	55F24	112	.10
Bundlers	55F29	47	.04
Burlers	55F30	74	.06
Card Tenders, Comber Tenders, and/or Card Strippers	55F62	192	.17
Casing Finishers and/or Stuffers	55F70	47	.04
Drawing Frame Tenders and/or Gill Box Tenders	55F87	40	.03
Cementers, Machine Joiner	55F91	64	.05
Chain Offbearers, Lumber	55F97	163	.14
Chemical Operators A	55G14	29	.02
Chemical Operators B	55G15	21	.02
Perforator Operators	55G16	25	.02
Chemical Operator Helpers	55G17	45	.04
Chippers	55G20	33	.03
Cloth Finishing Range Tenders, Middle	55G33	45	.04
Cloth Finishing Range Operators, Chief	55G34	10	.01
Coater Operators, Off-Machine	55G43	47	.04
Cobblers	55G49	54	.05
Coilers, Winders and/or Spoolers	55G51	19	.02
Combiner Operators	55G56	56	.05
Concrete Stone Fabricators	55G64	11	.01
Coremakers, Hand, Bench and/or Floor	55G85	22	.02
Coremakers, Machine	55G86	124	.11
Creelers, Yarn	55G98	42	.04
Curers, Rubber Goods	55H15	13	.01
Cut-Off Saw Operators	55H19	124	.11
Cutters, Portable Machine	55H25	61	.05
Cutting and Creasing Press Operators	55H28	15	.01
Cylinder Machine Tenders	55H32	52	.05
Dado Operators	55H34	23	.02
Dairy Processing Equipment Operators	55H35	19	.02

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Die Cutter and/or Clicking Machine Operators	55H64	536	.46
Dipping Machine Operators	55H76	81	.07
Doffers	55H79	60	.05
Dowel Machine Operators	55H83	25	.02
Dresser Tenders	55H90	17	.01
Drill-Press and/or Boring Machine Operators	55H95	766	.66
Dye-Range Operators and Spiral Dye-Beck Tenders	55I11	26	.02
Dye-Reel Operators, Jiggers, and/or Padding Machine Operators	55I12	17	.01
Dye-Tank Tenders, Nets; Warp-Dyeing - Vat Tenders; and/or Knit Goods Yarn Dyers, Vat	55I13	14	.01
Edgers, Automatic and/or Pony	55I18	50	.04
Ending Machine Operators	55I29	40	.03
Envelope Machine Operators	55I34	314	.27
Etchers and/or Engravers	55I35	85	.07
Insulating Extruding Machine Operators and/or Insulating Lead Press Operators	55I47	140	.12
Fabricators, Plastics	55I50	103	.09
Fallers and/or Buckers	55I51	129	.11
Finishers, Hand	55I69	314	.27
Flamers	55I82	32	.03
Flavor Room Workers and/or Freezer Operators	55I83	11	.01
Floor Workers, Footwear	55I85	496	.42
Folders, Machine	55I89	29	.02
Folding Machine Operators, Paper	55I93	80	.07
Forming Machine Operators, Glass Container	55I97	13	.01
Fourdrinier Machine Tenders	55J02	60	.05
Fusing Machine Operators	55J20	16	.01
Garment Repairers	55J24	12	.01
Glass Blowers, Glassware and/or Laboratory Apparatus	55J31	11	.01
Glass Cut-Off Machine Operators and/or Cutting Machine Operators	55J34	35	.03
Glass Grinders and/or Watch Crystal Edge Grinders	55J37	32	.03
Grinding and/or Abrading Machine Operators, Metal	55J63	1,032	.88

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Harness Builders Loom Changers and/or Loom Starters	55J78	19	.02
Head Sawyers	55J83	120	.10
Header Operators	55J84	18	.02
Heat Treaters, Annealers, and/or Temperers	55J85	103	.09
Heel Attachers	55J89	43	.04
Heel Seat Lasters, Machine	55J92	34	.03
Heel Seat Fitters, Machine	55J94	14	.01
Hydraulic Press Operators, Veneer	55K10	26	.02
Inkers, Hand or Machine	55K18	24	.02
Kettle Operators, Adhesive	55K34	19	.02
Kiln Operators	55K41	16	.01
Knitting Machine Operators	55K46	118	.10
Lasters, Hand	55K54	36	.03
Lasting Machine Operators, Hand Method	55K55	43	.04
Lath Operators, Wood	55K57	41	.04
Lath and/or Turning Machine Operators, Metal	55K58	896	.77
Lay-Out Markers, Metal	55K61	70	.06
Tanning Liquor Makers	55K79	11	.01
Loaders, Car and Truck	55K80	59	.05
Log Handling Equipment Operators	55K84	39	.03
Log Inspectors, Graders, and/or Scalers	55K85	59	.05
Lumber Graders	55K90	42	.04
Lumber Straighteners	55K91	48	.04
Envelope Finishing Machine Operators	55K95	17	.01
Machine Setters, Woodworking	55K97	42	.04
Machine Setters, Paper Goods	55K98	43	.04
Machine Tool Operators, Combination	55L01	1,197	1.03
Machine Tool Operators, Numerical Control	55L02	612	.52
Machine Tool Operators, Toolroom	55L03	231	.20
Machine Tool Setters, Metal-working	55L04	594	.51
Meat Grinders	55L16	38	.03
Menders, Cloth	55L18	22	.02
Milling and/or Planing Machine Operators	55L31	419	.36
Rubber Mill Operators	55L33	12	.01

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Wood Machinists	55L34	66	.06
Molders, Bench and/or Floor	55L57	148	.13
Molders, Machine	55L61	160	.14
Molding Machine Operators and/or Pressers	55L63	13	.01
Nailing Machine Operators	55L71	51	.04
Napper Tenders	55L73	26	.02
Needle Felt Making Machine Operators and/or Needle Loom Operators	55L74	43	.04
Novelty Workers	55L82	10	.01
Off-Bearers	55L84	126	.11
Paper Reel Operators and/or Rewinder Operators	55L97	34	.03
Patternmakers, Plastics	55M06	17	.01
Patternmakers	55M08	23	.02
Patternmakers, Metal	55M09	26	.02
Patternmakers, Wood	55M10	39	.03
Picker Tenders	55M15	35	.03
Plater Helpers	55M32	215	.18
Power Press Tenders	55M51	16	.01
Power Screwdriver Operators	55M52	64	.05
Press Operators, Meat	55M62	38	.03
Printer Slotter Operators	55M64	37	.03
Puller-Overs	55M70	14	.01
Pulp Refiner Operators	55M73	15	.01
Pulpers	55M74	24	.02
Quilling Machine Operators, Automatic or Non-Automatic	55M88	44	.04
Refractory Grinder Operators	55N03	20	.02
Repairers, Finish	55N05	141	.12
Plastics Repairers	55N06	54	.05
Resawyers	55N07	28	.02
Ripsaw Operators	55N15	119	.10
Rough Rounders, Machine	55N37	20	.02
Rubbers	55N39	28	.02
Rubber Goods Cutter-Finishers	55N43	18	.02
Sample Makers	55N51	12	.01
Samplers and/or Test Preparers	55N52	20	.02
Sandblasters, Stone	55N54	11	.01
Sanders, Wood	55N60	231	.20
Saw Filers	55N63	26	.02
Sawyers, Metal	55N64	61	.05
Sawyers, Stone	55N65	47	.04

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Seam Rubbing Machine Operators	55N81	40	.03
Seasoners, Machine	55N84	13	.01
Selectors, Glassware	55N91	75	.06
Shoe Parts Sewers, Hand	55P01	193	.17
Shakeout Workers, Foundry	55P03	85	.07
Shank-Piece Tackers	55P05	27	.02
Shaper and/or Router Operators	55P08	59	.05
Shell-Mold and/or Shell-Core Machine Operators	55P13	27	.02
Shellfish Shuckers	55P15	64	.05
Side Lasters	55P21	54	.05
Slitter - Scorer - Cut - Off Operators	55P47	31	.03
Slitting Machine Operators	55P49	110	.09
Smash Hand	55P54	14	.01
Sole Levelers, Machine	55P61	27	.02
Sorters, Leather	55P63	76	.07
Spinners, Frame	55P74	255	.22
Splitting Machine Feeders	55P78	24	.02
Sprayers, Hand and/or Machine	55P83	44	.04
Spreaders	55P84	40	.03
Stainers	55P90	18	.02
Stakers, Machine	55P91	23	.02
Still Operators, Batch or Continuous	55Q11	12	.01
Stitchers, Special Machine	55Q15	56	.05
Stitchers, Standard Machine	55Q16	1,027	.88
Stitchers, Utility	55Q17	205	.18
Stone Cutters, Hand	55Q20	47	.04
Stone Cutters, Machine	55Q21	17	.01
Stone Polishers	55Q25	17	.01
Stranding Machine Operators	55Q31	27	.02
Strippers, Rubber and Miscellaneous Plastics	55Q35	23	.02
Tackers, Togglers, and Pasters	55Q45	92	.08
Tanning Drum Operators and/or Colorers, Hides or Skins	55Q50	37	.03
Taping Machine Operators	55Q51	57	.05
Tenoner Operators	55Q54	24	.02
Testers	55Q57	913	.78
Thermolasting Machine Operators	55Q58	52	.05
Thread Trimmers	55Q62	75	.06
Toe Lasters	55Q76	18	.02

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Trimmers, Plastics	55Q79	51	.04
Treers	55Q84	76	.07
Trim Saw Operators	55Q88	101	.09
Splicers	55Q92	71	.06
Twister Tenders	55R03	40	.03
Variety Saw Operators	55R08	56	.05
Vulcanizers, Footwear	55R16	18	.02
Warp-Tying Machine Tenders	55R24	20	.02
Wax Pattern Workers	55R30	109	.09
Wet Machine Tenders	55R35	18	.02
Winders, Paper Machine	55R37	94	.08
Winder Operators, Automatic	55R38	45	.04
Wire Drawers	55R41	26	.02
Woodworking Machine Operators	55R43	471	.40
Work Distributors	55R46	51	.04
Wrapping Machine Operators	55R48	38	.03
Wringer Machine Operators	55R49	34	.03
Yarn Winders	55R53	49	.04
Press Tenders, Rubber Goods	55R57	93	.08
Press Operators	55R58	158	.14
Painters, Production	55R68	580	.50
Die-Casing Machine Operators, Metal and/or Die-Casting Setters	55R73	18	.02
Wirers, Electronic	55R74	173	.15
Impregnators, Electronic	55R75	17	.01
Riveters, Light	55R77	61	.05
Punch-Press Operators, Metal	55R78	623	.53
Punch-Press Setters, Metal	55R79	96	.08
Shear and/or Slitter Operators, Metal	55R80	52	.05
Shear and/or Slitter Setters	55R81	13	.01
Coil Winders	55R82	678	.58
Coil Tapers, Hand or Machine	55R83	57	.05
Encapsulators	55R84	120	.10
Compression and/or Injection Molding Machine Operators, Plastics	55R85	551	.47
Coil Finishers	55R86	320	.27
Conveyor Operators or Tenders	55R90	133	.11
Fourth Hands and/or Fifth Hands, Paper Machine	55R95	119	.10
Mixers, Stone, Clay, Glass and Related Products	55S04	12	.01
Core Assemblers, Plasters and/or Finishers	55S09	19	.02

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Dip Platers, Non-Electrolytic	55S15	31	.03
Furnace Operators and/or Cupola Tenders	55S16	62	.05
Cloth Graders	55S21	23	.02
Cutting Machine Operators, Food	55S22	17	.01
Baling Machine Operators	55S25	18	.02
Setters, Plastic Molding Machine	55S28	95	.08
Punch Press Operators, Plastics	55S30	53	.05
Fitters, Structural Metal	55S31	16	.01
Bodymaker Operators, Tin Can	55S33	13	.01
Drier Operators, Chemicals, Plastic Resins, and Rubber	55S38	11	.01
Concrete Vault Makers	55S42	12	.01
Cannery Workers	55S47	13	.01
Furnace Operator Helpers or Heater Helpers	55S51	11	.01
Insulation Wrapping or Braiding Machine Operators	55S52	38	.03
Chief Operators	55S53	72	.06
Waste Treatment Plant Operators, Chemicals	55S54	12	.01
Casket Coverers and/or Casket Liners	55S63	29	.02
Splitters, Machine	55S67	32	.03
Fasteners, Machine	55S68	81	.07
Cementers, Pasters, Backers, or Fitters, Hand	55S69	269	.23
Eyelet Machine Operators	55S70	47	.04
Molders, Shoe Parts	55S71	17	.01
Pulling and Lasting Machine Operators	55S73	50	.04
Purification Operators and/or Monomer Purification Operators	55S76	14	.01
Markers	55S77	15	.01
Cutters, Hand	55S78	151	.13
Turners	55S80	22	.02
Folders, Hand	55S81	27	.02
Power Brake and/or Bending Machine Operators, Metal	55S90	151	.13
Planer Operators	55S92	65	.06
Mill and/or Grinder Operators, Minerals	55S98	53	.05
Copy Markers	55T01	10	.01
Hand Compositors	55T03	98	.08

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Imposers and Makeup Arrangers	55T04	24	.02
Line Casting Machine Operators	55T05	23	.02
Line Casting Machine Keyboard Operators	55T06	14	.01
Pasteup Workers	55T11	114	.10
Phototypesetting Machine Keyboard Operators	55T12	40	.03
Phototypesetting Machine Monitors	55T13	32	.03
Phototypesetter Operators	55T14	67	.06
Proofreaders, Composed Copy	55T15	86	.07
Photoengravers	55T18	25	.02
Letter Press Operators, Sheet, Roll or Web Fed	55T23	130	.11
Letterset Press Operators, Sheet, Roll or Web Fed	55T24	10	.01
Press Assistants and Feeders	55T27	93	.08
Setters, Bindery Machines	55T28	32	.03
Mailers	55T31	165	.14
Equipment Cleaners, Hand	55T62	43	.04
Gluers and/or Cementers, Hand	55T65	106	.09
Cutters, Machine	55T66	361	.31
Drier Operators, Textiles and Rugs	55T69	21	.02
Screen or Stencil Printers and/or Setters	55T70	93	.08
Mold Closers, Core Setters and/or Weight and Jacket Setters	55T73	23	.02
Embossing, Stamping, and/or Marking Machine Operators	55T79	200	.17
Bookbinders, Hand	55T80	32	.03
Bookbinders, Machine	55T81	90	.08
Bindery Workers, Assembly	55T82	177	.15
Bindery Workers, Stitching	55T83	24	.02
All Other Bindery Workers	55T84	93	.08
Grinder Operators, Chemicals, Plastics, Rubber, and Related Materials	55T86	24	.02
Extruder Operators, Plastics or Rubber	55T91	78	.07
Extruder Operator Helpers, Plastics or Rubber	55T92	29	.02
Heat Sealers	55T94	72	.06
Clock, Watch, and Chronometer Assemblers	55U47	95	.08

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Machine Assemblers	55U81	839	.72
Instrument Makers and/or Assemblers	55U82	207	.18
Electro-Mechanical Equipment Assemblers	55U83	888	.76
Electrical and Electronic Assemblers	55U84	6,703	5.74
All Other Assemblers	55U99	3,011	2.58
Decorators, Hand	55V04	45	.04
Beamers, Hand or Machine	55V09	18	.02
Furnace, Kiln, Drier, or Oven Operator/Tenders	55V11	16	.01
Batch Plant Operators	57004	42	.04
Tinters	57030	11	.01
Mixers and/or Blenders, Chemicals and Chemical Products	57031	220	.19
Blow-Molding Machine Operators	58002	103	.09
Casters, Plastics	58004	12	.01
Laminators, Preforms	58009	47	.04
Press Operators, Plastics	58010	64	.05
Rotation Molding Machine Operators	58011	37	.03
Vacuum Plastic Forming Machine Operators	58014	22	.02
All Other Skilled Craft and Kindred Workers	59001	1,120	.96
All Other Operatives and Semiskilled Workers	59002	5,560	4.76
All Other Laborers and Unskilled Workers	59003	6,957	5.96
CLERICAL OCCUPATIONS	60000	13,304	11.40
Bookkeeping and/or Billing Machine Operators	61103	77	.07
Computer Operators	61105	248	.21
Keypunch Operators	61107	335	.29
Peripheral EDP Equipment Operators	61109	76	.07
Inserting and/or Labeling Machine Operators	61117	32	.03
All Other Office Machine Operators	61199	136	.12
Stenographers	61200	135	.12
Accounting Clerks	61301	740	.63
Bookkeepers, Hand	61307	495	.42

STAFFING PATTERNS

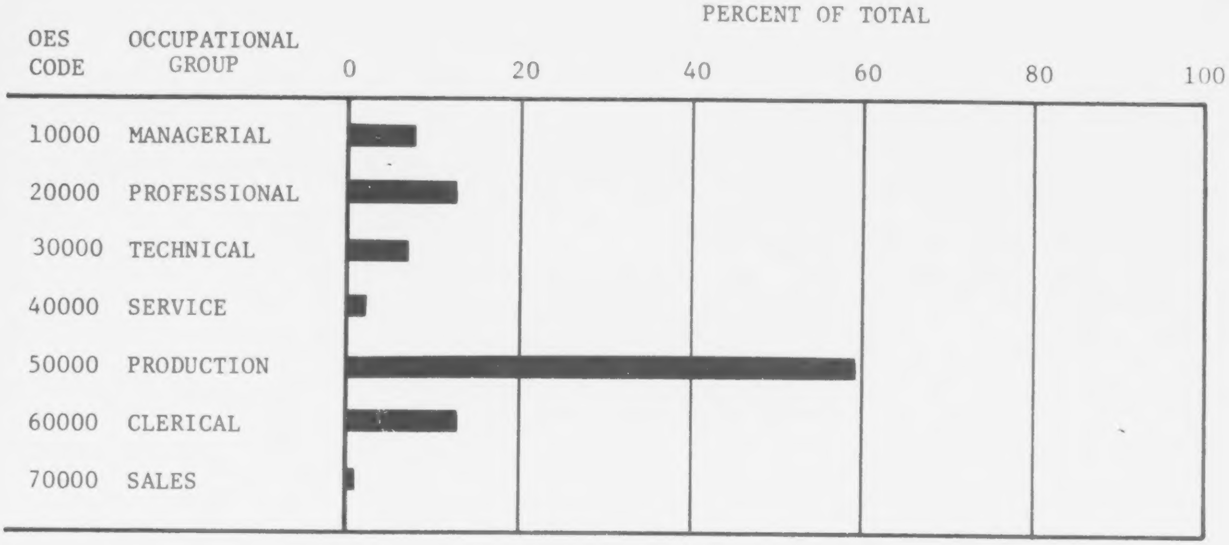
ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
File Clerks	61330	206	.18
General Clerks, Office	61333	1,304	1.12
Order Clerks	61350	435	.37
Payroll and/or Timekeeping Clerks	61351	356	.30
Personnel Clerks	61352	151	.13
Procurement Clerks	61355	231	.19
Receptionists	61361	90	.08
Secretaries	61368	2,019	1.73
Statistical Clerks	61374	68	.06
Switchboard Operators	61376	67	.06
Switchboard Operator/Receptionists	61377	222	.19
Typists	61392	530	.45
Clerical Supervisors, Office or Plant	61396	397	.34
Circulation Clerks	61416	44	.04
Classified-Ad Clerks, Newspaper	61417	17	.01
Customer Service Representatives, Printing and Publishing	61418	34	.03
Telephone Ad-Takers, Newspaper	61419	46	.04
All Other Office Clerical Workers	61900	648	.55
Production Clerks and/or Coordinators	62003	1,042	.89
Shipping Packers	62004	1,072	.92
Shipping and/or Receiving Clerks	62005	735	.63
Weighers, Record Keeping	62007	21	.02
Stock Clerks, Stockroom, Warehouse or Storage Yard	62008	1,026	.88
Dispatchers, Vehicle, Service or Work	62018	11	.01
All Other Plant Clerical Workers	62900	258	.22
SALES OCCUPATIONS	70000	1,808	1.55
Sales Representatives, Sales Agents, and/or Sales Associates	71000	1,583	1.36
Sales Clerks	72002	215	.18
All Other Sales Workers	79000	10	.01

* Less than 0.005 percent.

PERCENT DISTRIBUTION OF MAJOR OCCUPATIONAL GROUPS

ALL MANUFACTURING



ANNUAL AVERAGE EMPLOYMENT (in thousands)*

1972-1980

ALL MANUFACTURING

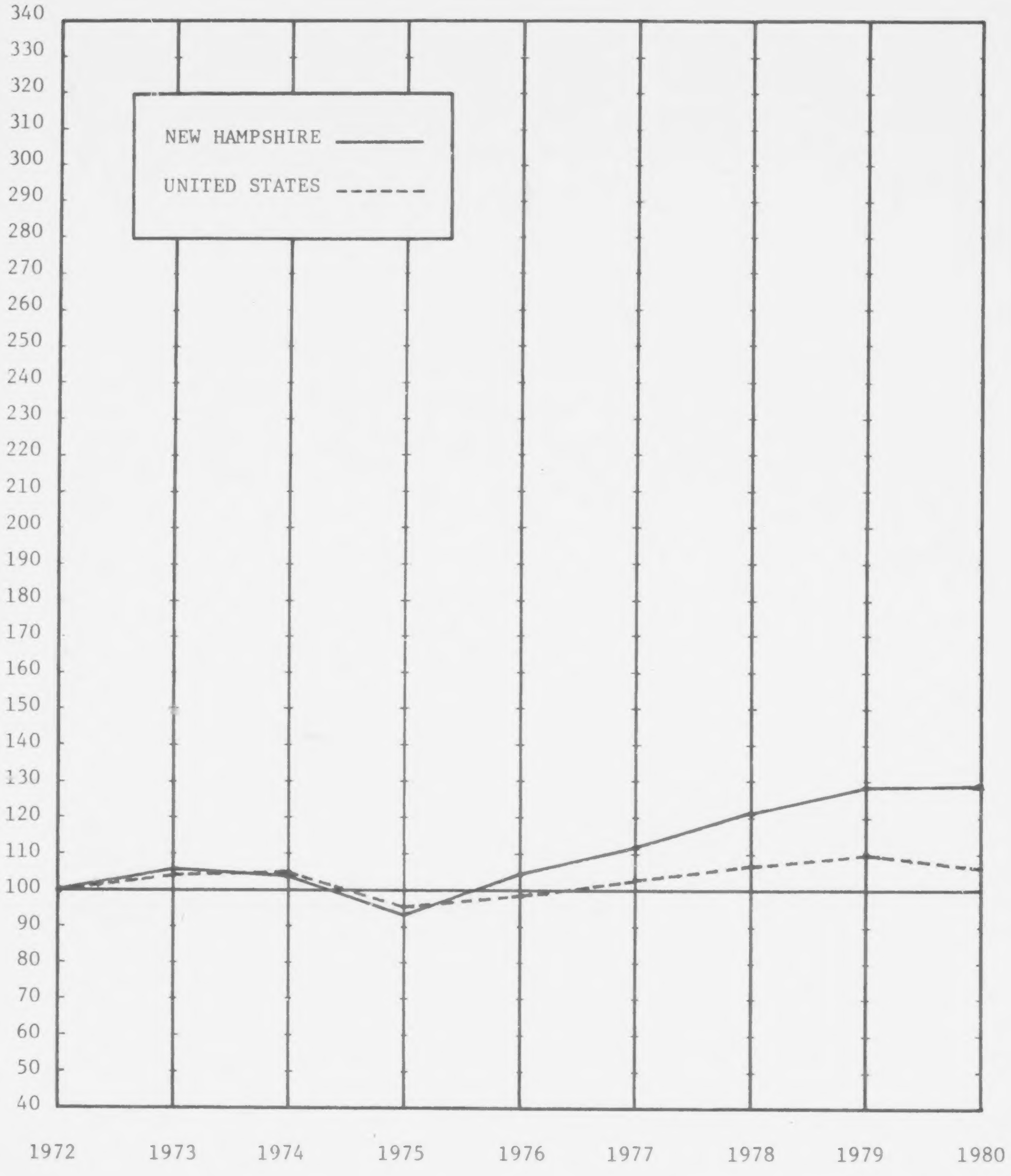
	NEW HAMPSHIRE		UNITED STATES	
YEAR	ANNUAL AVERAGE	PERCENT CHANGE	ANNUAL AVERAGE	PERCENT CHANGE
1972	90.8	-	19,151.0	-
1973	96.0	5.7	20,154.0	5.2
1974	94.2	- 1.9	20,077.0	- 0.4
1975	85.1	- 9.7	18,323.0	- 8.7
1976	94.4	10.9	18,997.0	3.7
1977	101.4	7.4	19,682.0	3.6
1978	109.8	8.3	20,505.0	4.2
1979	116.4	6.0	21,062.0	2.7
1980**	116.8	0.3	20,361.0	- 3.3

* Nonagricultural Employment

** Employment for 1980 based on preliminary data

INDEXES OF EMPLOYMENT
NEW HAMPSHIRE AND THE UNITED STATES 1972 - 1980
1972 = 100

ALL MANUFACTURING



STAFFING PATTERNS - MANUFACTURING INDUSTRIES

BY MAJOR OCCUPATION GROUP

			PERCENT						
SIC CODE	INDUSTRY	SECOND QTR. 1980 ESTIMATED EMPLOYMENT	MANAGERIAL 10000	PROFESSIONAL 20000	TECHNICAL 30000	SERVICE 40000	OPERATING MAINTENANCE 50000	CLERICAL 60000	SALES 70000
20-39	TOTAL ALL MANUFACTURING	116,736	5.9	7.3	3.8	1.5	68.5	11.4	1.6
24,25, 32-39	DURABLE GOODS MANUFACTURING	74,304	6.7	9.5	5.5	1.4	63.5	12.2	1.2
24	LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE	4,645	7.8	1.3	0.5	1.7	78.5	8.4	1.8
242	Sawmills and Planing Mills	1,711	8.1	1.6	0.3	1.0	80.0	7.9	1.1
243	Millwork, Veneer, Plywood, and Structural Wood Members	916	5.6	1.2	-	1.1	79.0	8.6	4.5
25	FURNITURE AND FIXTURES	1,881	4.0	3.0	1.0	1.2	74.8	13.2	2.8
251	Household Furniture	1,463	3.3	3.1	0.6	1.3	75.4	13.1	3.2
32	STONE, CLAY, GLASS, AND CONCRETE PRODUCTS	2,939	6.5	3.1	2.4	2.3	75.7	7.9	2.1
329	Abrasive, Asbestos, and Miscellaneous Nonmetalic Mineral Products	1,278	3.4	4.3	4.7	2.8	74.6	6.9	3.3
33	PRIMARY METAL INDUSTRIES	3,741	5.5	4.0	2.3	0.8	80.5	6.3	0.6
335	Rolling, Drawing, and Extruding Of Nonferrous Metals	1,191	5.5	7.0	4.7	0.8	74.9	6.0	1.1
336	Nonferrous Foundries (Castings)	1,054	4.5	2.6	1.0	1.0	83.2	6.8	0.9
34	FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND TRANSPORTATION EQUIPMENT	7,413	4.6	4.6	1.2	1.4	78.0	9.3	0.9
344	Fabricated Structural Metal Products	2,169	5.3	9.8	2.0	1.1	72.3	8.8	0.7
349	Miscellaneous Fabricated Metal Products	1,419	4.0	4.5	0.8	0.9	76.5	12.8	0.5

35	MACHINERY, EXCEPT ELECTRICAL	23,442	7.8	13.8	8.5	1.3	52.0	15.5	1.1
353	Construction, Mining, and Materials Handling Machinery and Equipment	857	3.7	7.0	7.7	0.5	65.6	15.0	0.5
354	Metalworking Machinery and Equipment	3,110	7.5	9.7	5.8	1.7	59.6	13.4	2.3
355	Special Industry Machinery, Except Metalworking Machinery	4,112	5.0	10.7	5.0	0.8	65.4	12.1	1.0
356	General Industrial Machinery and Equipment	3,456	7.6	6.7	3.1	2.0	67.9	11.5	1.2
357	Office, Computing, and Accounting Machines	10,491	9.3	20.5	13.4	1.2	35.0	19.7	0.9
359	Miscellaneous Machinery, Except Electrical	1,118	8.6	2.2	1.1	1.1	77.8	8.4	0.8
36	ELECTRICAL AND ELECTRONIC MACHINERY, EQUIPMENT AND SUPPLIES	19,772	7.1	12.2	6.7	1.6	59.3	12.3	0.8
362	Electrical Industrial Apparatus	1,010	3.1	4.2	1.7	2.1	78.6	9.7	0.6
364	Electric Lighting and Wiring Equipment	2,936	3.1	6.4	2.7	0.9	75.9	10.7	0.3
366	Communication Equipment	6,401	13.3	27.1	12.2	2.3	27.1	17.3	0.7
367	Electronic Components and Accessories	7,531	3.9	5.0	5.3	1.5	73.3	10.1	0.9
369	Miscellaneous Electrical Machinery, Equipment and Supplies	1,151	7.2	3.5	2.0	0.4	79.3	6.1	1.5
38	INSTRUMENTS AND RELATED SUPPLIES	7,668	5.4	7.6	5.9	1.2	67.2	11.4	1.3
381	Engineering and Scientific Instruments	1,691	11.3	13.3	11.3	1.6	41.4	20.4	0.7
382	Measuring and Controlling Instruments	4,452	2.5	6.5	4.9	1.1	75.1	8.6	1.3
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	2,004	5.7	3.6	1.4	1.5	71.4	12.5	3.9
399	Miscellaneous Manufactures	973	6.1	5.5	2.8	1.2	72.5	10.9	1.0
20-23, 26-31	NONDURABLE GOODS MANUFACTURING	42,432	4.7	3.4	0.9	1.6	77.2	10.1	2.1
20	FOOD AND KINDRED PRODUCTS	2,937	6.6	1.6	0.4	0.9	76.9	10.3	3.3
208	Beverages	1,077	6.2	1.1	0.3	1.0	79.2	8.6	3.6

22	TEXTILE MILL PRODUCTS	4,885	4.2	1.4	0.6	2.8	81.7	8.9	0.4
223	Broad Woven Fabric Mills, Wool	1,299	2.1	1.2	0.5	0.4	91.7	4.0	0.1
224	Narrow Fabrics and Other Smallwares Mills: Cotton, Wool, Silk, and Man-Made Fiber	1,062	4.9	1.9	0.5	1.9	80.1	10.7	-
225	Knitting Mills	814	4.2	1.6	0.2	8.4	71.6	13.9	0.1
23	APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS	2,880	5.0	1.4	0.3	1.4	79.8	10.6	1.5
233	Women's, Misses' and Juniors Outerwear	1,989	5.0	1.4	0.3	1.7	81.0	9.6	1.0
26	PAPER AND ALLIED PRODUCTS	6,469	2.8	3.0	1.2	2.3	81.9	7.5	1.3
262	Paper Mills, Except Building Paper Mills	3,228	1.8	3.3	2.1	2.2	81.7	7.9	1.0
27	PRINTING, PUBLISHING, AND ALLIED INDUSTRIES	6,243	9.4	7.7	1.2	2.0	58.2	16.7	4.8
271	Newspapers: Publishing, Publishing and Printing	1,632	12.0	19.3	1.5	0.8	38.7	19.0	8.7
275	Commercial Printing	2,428	7.5	1.4	1.0	3.1	73.4	11.8	1.8
30	RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS	8,623	3.7	4.4	1.2	1.3	78.1	8.3	3.0
302	Rubber and Plastics Footwear	1,518	3.9	2.1	0.2	0.6	82.1	9.9	1.2
306	Fabricated Rubber Products Not Elsewhere Classified	1,177	5.3	3.0	0.8	0.8	72.6	9.9	7.6
307	Miscellaneous Plastics Products	5,928	3.4	5.3	1.5	1.5	78.2	7.6	2.5
31	LEATHER AND LEATHER PRODUCTS	9,543	2.5	1.6	0.8	1.0	84.0	9.1	1.0
314	Footwear, Except Rubber	8,024	2.2	1.5	0.8	1.0	84.3	9.3	0.9

SUMMARY

OCCUPATIONAL EMPLOYMENT

DURABLE GOODS MANUFACTURING

(SIC 24,25, 32-39)

There were 74,304 wage and salary workers employed in the durable goods manufacturing sector during the occupational survey period of the second quarter of 1980. The largest major occupational group was the production and production related jobs with 47,206 workers representing almost 64 percent of the total employment. This was followed by the clerical group with 9,032 workers, or over 12 percent, and the professional group with 7,077 workers, or more than nine percent of the total employment in the durable goods sector.

The occupation employing the largest number of workers was the electrical and electronic assemblers with 6,703 employees or more than nine percent of the total followed by managers and officers with 4,961 employees (nearly seven percent), and inspectors with 2,374 workers or over three percent of the total employment in durable goods manufacturing.

THE TWENTY OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS

LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
1	55U84	Electrical and Electronic Assemblers	6,703	9.0
2	10000	Managers and Officers	4,961	6.7
3	55B58	Inspectors	2,374	3.2
4	55B29	Supervisors, Nonworking	2,215	3.0
5	32004	Electrical and Electronic Technicians	2,038	2.7
6	61368	Secretaries	1,639	2.2
7	55L01	Machine Tool Operators, Combination	1,197	1.6
8	21005	Electrical and Electronic Engineers	1,090	1.5
9	55J63	Grinding and/or Abrading Machine Operators, Metal	1,032	1.4
10	55B19	Filers, Grinders, Buffers, Chippers, Cleaners, and/or Polishers	908	1.2
11	55K58	Lathe and/or Turning Machine Operators, Metal	896	1.2
12	55U83	Electro-Mechanical Equipment Assemblers	888	1.2
13	62003	Production Clerks and/or Coordinators	859	1.2
14	21006	Industrial Engineers	852	1.1
15	55U81	Machine Assemblers	839	1.1
16	62008	Stock Clerks, Stockroom, Warehouse or Storage Yard	812	1.1
17	55D46	Welders and/or Flamecutters	800	1.1
18	61333	General Clerks, Office	791	1.1
19	71000	Sales Representatives, Sales Agents, and/or Sales Associates	779	1.0
20	55H95	Drill-Press and/or Boring Machine Operators	766	1.0

STAFFING PATTERNS

DURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
TOTAL ALL OCCUPATIONS		74,304	100.00
MANAGERS AND OFFICERS	10000	4,961	6.68
PROFESSIONAL OCCUPATIONS	20000	7,077	9.52
Chemical Engineers	21003	63	.08
Civil Engineers	21004	13	.02
Electrical and Electronic Engineers	21005	1,090	1.47
Industrial Engineers	21006	852	1.15
Mechanical Engineers	21008	666	.90
Metallurgists and Metallurgical Engineers	21009	11	.01
All Other Engineers	21900	715	.96
Mathematicians	22103	11	.01
All Other Mathematical Scientists	22199	1	*
Chemists	22201	38	.05
Physicists	22205	25	.03
All Other Physical Scientists	22299	1	*
All Life Scientists	22300	2	*
All Other Natural and Mathematical Scientists	22999	4	.01
Systems Analysts, Electronic Data Processing	24000	47	.06
Systems Analysts, Business	24001	96	.13
Purchasing Agents and/or Buyers	25300	476	.64
Accountants and Auditors	25401	702	.95
Commercial Artists	25426	67	.09
Cost Estimators, Engineering	25427	105	.14
Writers and/or Editors	25436	240	.32
Lawyers	25446	14	.02
Nurses, Professional	25457	51	.07
Personnel and Labor Relations Specialists	25465	269	.36
Designers	25489	134	.18
Contract Administrators	25551	182	.25
All Other Professional Workers	29000	1,202	1.62
TECHNICAL OCCUPATIONS	30000	4,089	5.50
Computer Programmers	31000	30	.04
Computer Programmers, Business	31001	154	.21

STAFFING PATTERNS

DURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Computer Programmers, Scientific and Technical	31002	21	.03
Drafters	32003	633	.85
Electrical and Electronic Technicians	32004	2,038	2.74
Radiographers	32009	12	.02
Mechanical Engineering Technicians	32010	239	.32
Tool Programmers, Numerical Control	32011	103	.14
Industrial Engineering Technicians	32019	66	.09
All Other Engineering Technicians	32900	331	.44
Timber Cruisers	33005	12	.02
All Other Science Technicians	33900	106	.14
All Other Technicians	39000	344	.46
SERVICE OCCUPATIONS	40000	1,046	1.41
Janitors, Porters, and Cleaners	41000	668	.90
Guards and Doorkeepers	42000	240	.33
Food Service Workers	43000	23	.03
Supervisors, Nonworking--Service Only	44014	98	.13
All Other Service Workers	49000	17	.02
PRODUCTION OCCUPATIONS	50000	47,206	63.53
Mechanics, Automotive	51008	54	.07
Electric Motor Repairers	51020	10	.01
Electrical Instrument Repairers	51023	14	.02
Marine Mechanics and/or Repairers	51042	19	.03
Mechanics, Maintenance	51043	594	.80
Refrigeration Mechanics and/or Air Conditioning Mechanics	51052	24	.03
Data Processing Machine Repairers	51079	30	.04
All Other Mechanics and Repairers	51900	47	.06
Truck Drivers	54000	630	.85
Cabinetmakers	55A38	359	.48
Carpenters	55A47	276	.37
Crane, Derrick, and Hoist Operators	55A82	37	.05
Delivery and/or Route Workers	55A87	79	.11
Electricians	55B12	310	.42
Filers, Grinders, Buffers, Chippers, Cleaners, and/or Polishers	55B19	908	1.22
Supervisors, Nonworking	55B29	2,215	2.98

STAFFING PATTERNS

DURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Gear Cutting, Gear Grinding and/or Gear Shaping Machine Operators	55B44	52	.07
Glaziers	55B48	18	.02
Heavy Equipment Operators	55B52	43	.06
Riggers	55B54	34	.05
Industrial Truck Operators	55B57	418	.56
Inspectors	55B58	2,374	3.19
Instrument Repairers	55B62	12	.02
Jewelers and/or Silversmiths	55B66	10	.01
Lens Grinders	55B70	85	.11
Machinists	55B84	701	.94
Maintenance Repairers, General Utility	55B86	556	.75
Helpers, Trades	55B87	278	.37
Metal Fabricators	55B91	141	.19
Millwrights	55B95	105	.14
Oilers	55C06	26	.04
Order Fillers	55C08	188	.25
Painters, Maintenance	55C12	27	.04
Pourers, Metal	55C27	86	.12
Electroplaters	55C29	247	.33
Plumbers and/or Pipefitters	55C30	77	.10
Press Operators and/or Plate Printers	55C36	14	.02
Production Packagers, Hand or Machine	55C39	658	.89
Refractory Materials Repairers	55C46	22	.03
Sandblasters and/or Shotblasters	55C64	81	.11
Sewing Machine Operators, Regular Equipment--Garment	55C76	92	.12
Sewing Machine Operators, Regular Equipment--Nongarment	55C78	206	.28
Sewing Machine Operators, Special and/or Automatic Equipment--Nongarment	55C79	12	.02
Sheet Metal Workers	55C81	204	.27
Stationary Boiler Firers	55C90	38	.05
Structural Steel Workers	55C96	23	.03
Tool and Die Makers	55D23	657	.88
Logging Tractor Operators	55D27	101	.14
Welders and/or Flamecutters	55D46	800	1.08
Weavers	55D48	22	.03
Opticians, Dispensing and/or Optical Mechanics	55D69	50	.07

STAFFING PATTERNS

DURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Furniture Finishers	55D86	13	.02
Power Barker Operators	55E38	69	.09
Blockmaking Machine Operators	55E86	41	.06
Boring Machine Operators, Wood	55E98	57	.08
Braiding Machine Operators	55F09	10	.01
Breakers	55F14	18	.02
Chain Offbearers, Lumber	55F97	163	.22
Chippers	55G20	26	.04
Coilers, Winders and/or Spoolers	55G51	19	.03
Concrete Stone Fabricators	55G64	11	.01
Coremakers, Hand, Bench and/or Floor	55G85	22	.03
Coremakers, Machine	55G86	124	.17
Cut-Off Saw Operators	55H19	124	.17
Dado Operators	55H34	23	.03
Dowel Machine Operators	55H83	25	.03
Drill-Press and/or Boring Machine Operators	55H95	766	1.03
Edgers, Automatic and/or Pony	55I18	50	.07
Etchers and/or Engravers	55I35	85	.11
Insulating Extruding Machine Operators and/or Insulating Lead Press Operators	55I47	140	.19
Fallers and/or Buckers	55I51	129	.17
Forming Machine Operators, Glass Container	55I97	13	.02
Glass Blowers, Glassware and/or Laboratory Apparatus	55J31	11	.01
Glass Cut-Off Machine Operators and/or Cutting Machine Operators	55J34	35	.05
Glass Grinders and/or Watch Crystal Edge Grinders	55J37	32	.04
Grinding and/or Abrading Machine Operators, Metal	55J63	1,032	1.39
Head Sawyers	55J83	120	.16
Hender Operators	55J84	18	.02
Heat Treaters, Annealers, and/or Temperers	55J85	103	.14
Hydrolic Press Operators, Veneer	55K10	26	.04
Kiln Operators	55K41	16	.02
Lathe Operators, Wood	55K57	41	.06
Lathe and/or Turning Machine Operators, Metal	55K58	896	1.21
Lay-Out Markers, Metal	55K61	70	.09

STAFFING PATTERNS

DURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Loaders, Car and Truck	55K80	59	.08
Log Handling Equipment Operators	55K84	39	.05
Log Inspectors, Graders, and/or Scalers	55K85	54	.07
Lumber Graders	55K90	42	.06
Lumber Straighteners	55K91	48	.06
Machine Setters, Wood working	55K97	42	.06
Machine Tool Operators, Combination	55L01	1,197	1.61
Machine Tool Operators, Numerical Control	55L02	612	.82
Machine Tool Operators, Toolroom	55L03	231	.31
Machine Tool Setters, Metal working	55L04	594	.80
Milling and/or Planing Machine Operators	55L31	419	.56
Wood Machinists	55L34	66	.09
Molders, Bench and/or Floor	55L57	148	.20
Molders, Machine	55L61	160	.21
Molding Machine Operators and/or Pressers	55L63	13	.02
Nailing Machine Operators	55L71	51	.07
Off-Bearers	55L84	126	.17
Patternmakers, Metal	55M09	26	.04
Patternmakers, Wood	55M10	39	.05
Plater Helpers	55M32	215	.29
Power Press Tenders	55M51	16	.02
Power Screwdriver Operators	55M52	64	.09
Refractory Grinder Operators	55N03	20	.03
Resawyers	55N07	28	.04
Ripsaw Operators	55N15	119	.16
Rubbers	55N39	28	.04
Samplers and/or Test Preparers	55N52	20	.03
Sandblasters, Stone	55N54	11	.01
Sanders, Wood	55N60	231	.31
Saw Filers	55N63	26	.04
Sawyers, Metal	55N64	61	.08
Sawyers, Stone	55N65	47	.06
Selectors, Glassware	55N91	75	.10
Shakeout Workers, Foundry	55P03	85	.11
Shaper and/or Route Operators	55P08	59	.08
Shell-Mold and/or Shell-Core Machine Operators	55P13	27	.04

STAFFING PATTERNS

DURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Spinners, Frame	55P74	17	.02
Stone Cutters, Hand	55Q20	47	.06
Stone Cutters, Machine	55Q21	17	.02
Stone Polishers	55Q25	17	.02
Stranding Machine Operators	55Q31	27	.04
Tenoner	55Q54	24	.03
Testers	55Q57	758	1.02
Trim Saw Operators	55Q88	101	.14
Variety Saw Operators	55R08	56	.08
Wax Pattern Workers	55R30	109	.15
Wire Drawers	55R41	26	.04
Woodworking Machine Operators	55R43	471	.63
Press Operators	55R58	158	.21
Painters, Production	55R68	426	.57
Die-Casting Machine Operators, Metal and/or Die Casting Setters	55R73	18	.02
Wirers, Electronic	55R74	173	.23
Impregnators, Electronic	55R75	17	.02
Riveters, Light	55R77	23	.03
Punch-Press Operators, Metal	55R78	623	.84
Punch-Press Setters, Metal	55R79	96	.13
Shear and/or Slitter Operators, Metal	55R80	52	.07
Shear and/or Slitter Setters	55R81	13	.02
Coil Winders	55R82	678	.91
Coil Tapers, Hand or Machine	55R83	57	.08
Encapsulators	55R84	120	.16
Compression and/or Injection Molding Machine Operators, Plastics	55R85	190	.26
Coil Finishers	55R86	320	.43
Conveyor Operators or Tenders	55R90	52	.07
Mixers, Stone, Clay, Glass and Related Products	55S04	12	.02
Core Assemblers, Pasters and/or Finishers	55S09	19	.03
Dip Platers, Non-Electrolytic	55S15	31	.04
Furnace Operators and/or Cupola Tenders	55S16	62	.08
Fitters, Structural Metal	55S31	16	.02
Bodymaker Operators, Tin Can	55S33	13	.02
Concrete Vault Makers	55S42	12	.02
Furnace Operator Helpers or Heater Helpers	55S51	11	.01

STAFFING PATTERNS

DURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Insulation Wrapping or Braiding Machine Operators	55S52	38	.05
Casket Coverers and/or Casket Liners	55S63	29	.04
Power Brake and/or Bending Machine Operators, Metal	55S90	151	.20
Planer Operators	55S92	65	.09
Mill and/or Grinder Operators, Minerals	55S98	53	.07
Gluers and/or Cementers, Hand	55T65	12	.02
Screen and/or Stencil Printers and/or Setters	55T70	76	.10
Mold Closers, Core Setters and/or Weight and Jacket Setters	55T73	23	.03
Clock, Watch, and Chronometer Assemblers	55U47	95	.13
Machine Assemblers	55U81	839	1.13
Instrument Makers and/or Assemblers	55U82	207	.28
Electro-Mechanical Equipment Assemblers	55U83	888	1.20
Electrical and Electronic Assemblers	55U84	6,703	9.02
All Other Assemblers	55U99	2,245	3.02
Decorators, Hand	55V04	45	.06
Furnace, Kiln, Drier, or Oven Operator/Tenders	55V11	16	.02
Batch Plant Operators	57004	42	.06
Mixers and/or Blenders, Chemicals and Chemical Products	57031	36	.05
Laminators, Preforms	58009	47	.06
All Other Skilled Craft and Kindred Workers	59001	671	.90
All Other Operatives and Semiskilled Workers	59002	3,544	4.77
All Other Laborers and Unskilled Workers	59003	3,029	4.08
CLERICAL OCCUPATIONS	60000	9,032	12.16
Bookkeeping and/or Billing Machine Operators	61103	36	.05
Computer Operators	61105	186	.25
Keypunch Operators	61107	229	.31

STAFFING PATTERNS

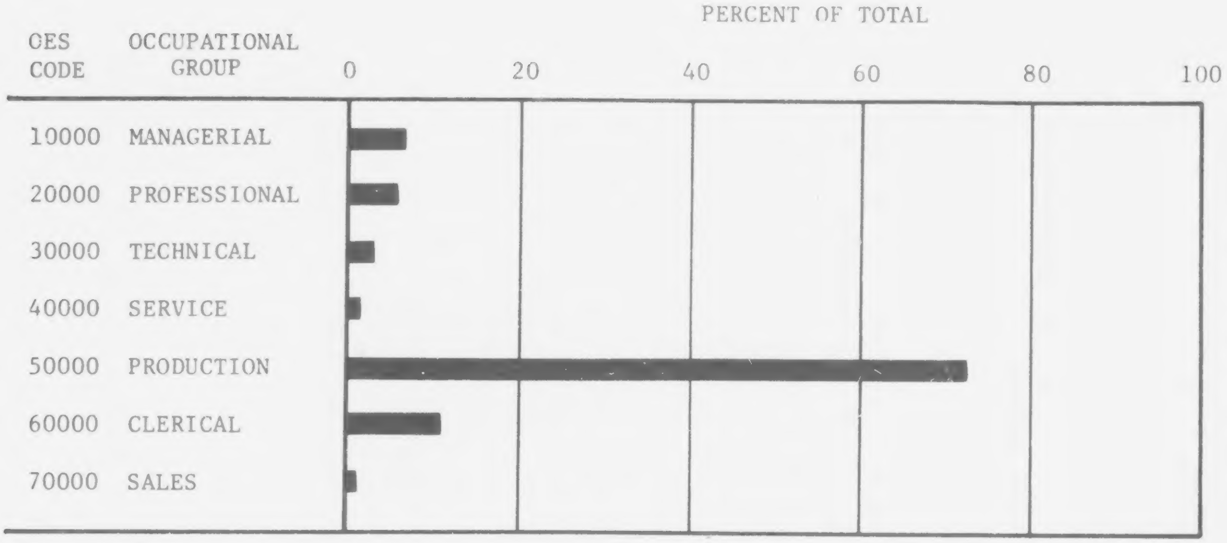
DURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Peripheral EDP Equipment Operators	61109	71	.10
All Other Office Machine Operators	61199	107	.14
Stenographers	61200	108	.14
Accounting Clerks	61301	512	.69
Bookkeepers, Hand	61307	293	.39
File Clerks	61330	167	.22
General Clerks, Office	61333	791	1.06
Order Clerks	61350	273	.37
Payroll and/or Timekeeping Clerks	61351	161	.22
Personnel Clerks	61352	109	.15
Procurement Clerks	61355	194	.26
Receptionists	61361	58	.08
Secretaries	61368	1,639	2.21
Statistical Clerks	61374	53	.07
Switchboard Operators	61376	46	.06
Switchboard Operator/Receptionists	61377	140	.19
Typists	61392	339	.46
Clerical Supervisors, Office or Plant	61396	175	.24
All Other Office Clerical Workers	61900	534	.72
Production Clerks and/or Coordinators	62003	859	1.16
Shipping Packers	62004	586	.79
Shipping and/or Receiving Clerks	62005	396	.53
Stock Clerks, Stockroom, Warehouse or Storage Yard	62008	812	1.09
Dispatchers, Vehicle, Service or Work	62018	11	.01
All Other Plant Clerical Workers	62900	147	.20
SALES OCCUPATIONS	70000	893	1.20
Sales Representatives, Sales Agents and/or Sales Associates	71000	779	1.05
Sales Clerks	72002	114	.15

* Less than 0.005 percent.

PERCENT DISTRIBUTION OF MAJOR OCCUPATIONAL GROUPS

DURABLE GOODS MANUFACTURING



ANNUAL AVERAGE EMPLOYMENT (in thousands)*

1972-1980

DURABLE GOODS MANUFACTURING

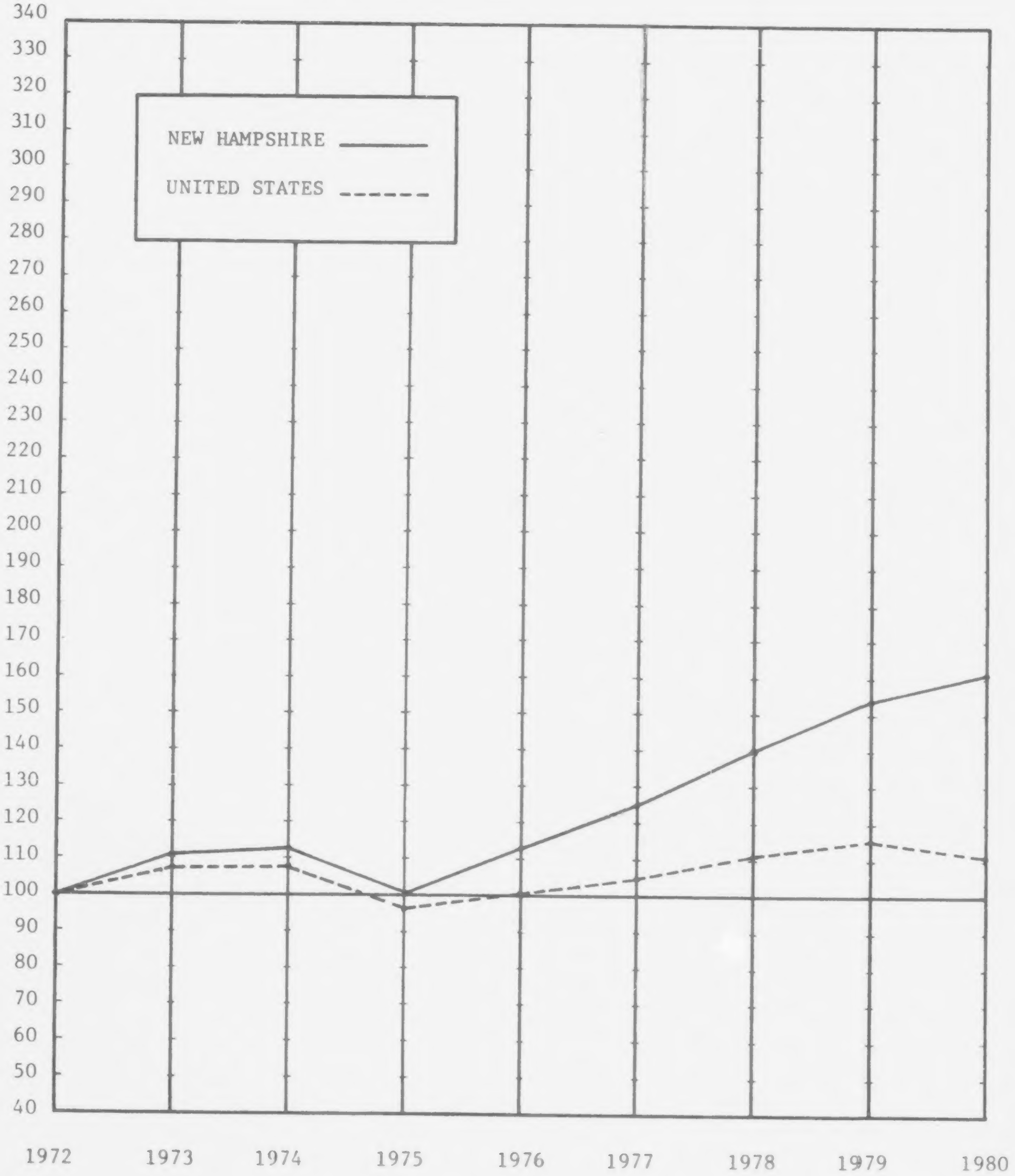
	NEW HAMPSHIRE		UNITED STATES	
YEAR	ANNUAL AVERAGE	PERCENT CHANGE	ANNUAL AVERAGE	PERCENT CHANGE
1972	46.0	-	11,049.0	-
1973	51.0	10.9	11,891.0	7.6
1974	51.8	1.6	11,925.0	0.3
1975	46.7	- 9.8	10,688.0	- 10.4
1976	52.1	11.6	11,077.0	3.6
1977	57.6	10.6	11,597.0	4.7
1978	64.4	11.8	12,274.0	5.8
1979	71.0	10.2	12,772.0	4.1
1980**	74.1	4.4	12,215.0	- 4.4

* Nonagricultural Employment

** Employment for 1980 based on preliminary data

INDEXES OF EMPLOYMENT
NEW HAMPSHIRE AND THE UNITED STATES 1972 - 1980
1972 = 100

DURABLE GOODS MANUFACTURING



OCCUPATIONAL EMPLOYMENT
DURABLE GOODS MANUFACTURING
LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE
(SIC 24)

This major group includes logging camps engaged in cutting timber and pulpwood; merchant sawmills, lath mills, shingle mills, cooperage stock mills, planing mills, and plywood mills and veneer mills engaged in producing lumber and wood basic materials; and establishments engaged in manufacturing finished articles made entirely or mainly of wood or wood substitutes. This group does not include establishments producing furniture, musical instruments, toys, caskets, and playground equipment.

There were 4,645 wage and salary workers in this industry during the survey month of May 1980, a decrease of 43 workers from the previous survey in 1977. Numbering 3,648 employees or more than 78 percent of all employment, production related occupations lost 156 workers over the three years between surveys. The major part of the reduction was due to a loss of 46 carpenters. Managers and officers gained 61 positions for a 20 percent increase - the largest numerical increase and the second largest in percentage of increase.

THE ELEVEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	MAY 1980 ESTIMATED EMPLOYMENT
1	10000	Managers and Officers	360
2	55U00	Assemblers	312
3	54000	Truck Drivers	184
4	55R43	Woodworking Machine Operators	164
5	55F97	Chain Offbearers, Lumber	163
6	55A47	Carpenters	156
7	55A38	Cabinetmakers	132
8	55I51	Fallers and/or Buckers	129
9	55J83	Head Sawyers	120
10	55D27	Logging Tractor Operators	101
	55Q88	Trim Saw Operators	101

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	10000	Managers and Officers	72.7
2	55J83	Head Sawyers	43.9
3	54000	Truck Drivers	41.0
4	61307	Bookkeepers, Hand	33.1
5	55E38	Power Barker Operators	30.2

STAFFING PATTERNS

LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE

(SIC 24)

OCCUPATIONAL TITLE	OES CODE	MAY 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
TOTAL ALL OCCUPATIONS		4,645	100.0				
MANAGERS AND OFFICERS	10000	360	7.8	4	374	346	72.7
PROFESSIONAL OCCUPATIONS	20000	60	1.3				
All Engineers	21000	6	0.1	NA	-	-	NA
All Natural and Mathematical Scientists	22000	2	*	NA	-	-	NA
Purchasing Agents and/or Buyers	25300	15	0.4	15	17	13	7.2
Accountants and Auditors	25401	33	0.7	18	39	27	14.4
All Other Professional Workers	29000	4	0.1	NA	-	-	NA
TECHNICAL OCCUPATIONS	30000	21	0.5				
All Engineering Technicians	32000	9	0.2	NA	-	-	NA
Timber Cruisers	33005	12	0.3	23	15	9	4.3
SERVICE OCCUPATIONS	40000	81	1.7				
Janitors, Porters, and Cleaners	41000	46	1.0	8	50	42	17.3
Guards and Doorkeepers	42000	30	0.6	17	35	25	7.9
All Food Service Workers	43000	1	*	NA	-	-	NA
All Other Service Workers	49000	4	0.1	NA	-	-	NA
PRODUCTION OCCUPATIONS	50000	3,648	78.5				
Mechanics, Automotive	51008	10	0.2	46	15	5	1.4
Mechanics, Maintenance	51043	53	1.1	9	58	48	17.3
All Other Mechanics and Repairers	51900	3	0.1	NA	-	-	NA

See page 184 for explanation of footnotes.

STAFFING PATTERNS

LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE

(SIC 24)

OCCUPATIONAL TITLE	OES CODE	MAY 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Truck Drivers	54000	184	4.0	7	197	171	41.0
Cabinet makers	55A38	132	2.8	14	150	114	5.8
Carpenters	55A47	156	3.4	6	165	147	12.2
Delivery and/or Route Workers	55A87	29	0.6	15	33	25	5.0
Electricians	55B12	20	0.4	10	22	18	3.6
Supervisors, Nonworking	55B29	94	2.0	7	101	87	20.1
Glaziers	55B48	18	0.4	36	24	12	2.2
Heavy Equipment Operators	55B52	26	0.5	43	37	15	2.9
Industrial Truck Operators	55B57	96	2.1	5	101	91	28.8
Inspectors	55B58	22	0.5	13	25	19	7.2
Maintenance Repairers, General Utility	55B86	86	1.9	5	90	82	22.3
Helpers, Trades	55B87	68	1.5	19	81	55	12.9
Production Packagers, Hand or Machine	55C39	31	0.7	12	35	27	7.2
Logging Tractor Operators	55D27	101	2.2	19	120	82	20.1
Power Barker Operators	55E38	69	1.5	5	72	66	30.2
Boring Machine Operators, Wood	55E98	25	0.5	7	27	23	2.9
Chain Offbearers, Lumber	55F97	163	3.5	11	181	145	24.5
Chippers	55G20	26	0.5	12	29	23	10.1
Cut-Off Saw Operators, Lumber	55H19	85	1.8	11	94	76	23.0
Dado Operators	55H34	19	0.4	2	19	19	2.2
Dowel Machine Operators	55H83	23	0.5	0	23	23	0.7
Edgers, Automatic and/or Pony	55I18	50	1.1	7	54	46	24.5
Fallers and/or Buckers	55I51	129	2.8	13	146	112	21.6
Head Sawyers	55J83	120	2.6	4	125	115	43.9
Hydraulic Press Operators, Veneer	55K10	26	0.5	0	26	26	0.7
Kiln Operators, Lumber	55K41	16	0.4	20	19	13	4.3
Lathe Operators, Wood	55K57	30	0.6	0	30	30	0.7

See page 184 for explanation of footnotes.

STAFFING PATTERNS

LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE

(SIC 24)

OCCUPATIONAL TITLE	OES CODE	MAY 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Loaders, Car and Truck	55K80	59	1.3	10	65	53	15.8
Log Handling Equipment Operators	55K84	39	0.8	12	44	34	13.7
Log Inspectors, Graders, and/or Scalers	55K85	54	1.2	7	58	50	24.5
Lumber Graders	55K90	42	0.9	9	46	38	15.8
Lumber Straighteners	55K91	48	1.0	14	55	41	10.1
Machine Setters, Woodworking	55K97	20	0.4	16	23	17	6.5
Wood Machinists	55L34	52	1.1	14	59	45	9.4
Nailing Machine Operators	55L71	50	1.1	12	56	44	10.1
Off-Bearers	55L84	45	1.0	10	50	40	8.6
Resawyers	55N07	28	0.6	12	31	25	10.8
Ripsaw Operators	55N15	57	1.2	10	63	51	18.7
Sanders, Wood	55N60	63	1.4	8	68	58	12.9
Saw Filers	55N63	26	0.5	11	29	23	12.2
Shaper and/or Router Operators	55P08	31	0.7	18	37	25	3.6
Trim Saw Operators	55Q88	101	2.2	5	106	96	28.1
Variety Saw Operators	55R08	36	0.8	14	41	31	8.6
Woodworking Machine Operators	55R43	164	3.5	7	175	153	20.1
Painters, Production	55R68	64	1.4	8	69	59	12.9
Planer Operators	55S92	65	1.4	7	70	60	21.6
Assemblers	55U00	312	6.7	8	337	287	18.0
All Other Skilled Craft and Kindred Workers	59001	31	0.7	NA	-	-	NA
All Other Operatives and Semiskilled Workers	59002	122	2.6	NA	-	-	NA
All Other Laborers and Unskilled Workers	59003	229	4.9	NA	-	-	NA
CLERICAL OCCUPATIONS	60000	391	8.4				
All Office Machine Operators	61100	4	0.1	NA	-	-	NA
Accounting Clerks	61301	38	0.8	10	42	34	15.1
Bookkeepers, Hand	61307	84	1.8	8	91	77	33.1

See page 184 for explanation of footnotes.

STAFFING PATTERNS

LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE

(SIC 24)

OCCUPATIONAL TITLE	OES CODE	MAY 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
General Clerks, Office	61333	80	1.7	7	86	74	26.6
Secretaries	61368	67	1.4	7	72	62	29.5
All Other Office Clerical Workers	61900	23	0.5	NA	-	-	NA
Shipping Packers	62004	68	1.5	10	75	61	19.4
All Other Plant Clerical Workers	62900	27	0.6	NA	-	-	NA
SALES OCCUPATIONS	70000	84	1.8				
Sales Representatives, Sales Agents, and/or Sales Associates	71000	75	1.6	8	81	69	15.1
All Other Sales Workers	79000	9	0.2	NA	-	-	NA

* Less than 0.05 percent.

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

Agricultural Scientists
Automatic Clippers, Veneer
Band Scroll Saw Operators
Bookkeeping and/or Billing Machine Operators
Carrier Drivers
Choker Setters, Lumber
Clerical Supervisors, Office or Plant
Computer Operators
Crane, Derrick and Hoist Operators
Cut-Off Sawyers, Log
Drapers
Edge Gluers
Engineering Equipment Mechanics
File Clerks
Food Service Workers
Gang Sawyers
Head Loaders
Industrial Engineers
Keypunch Operators
Kiln Stacker Operators
Loader Engineers
Machinists
Mechanical Engineers
Millwrights
Mixers and/or Blenders Chemicals and Chemical Products

See page 184 for explanation of footnotes.

STAFFING PATTERNS

LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE

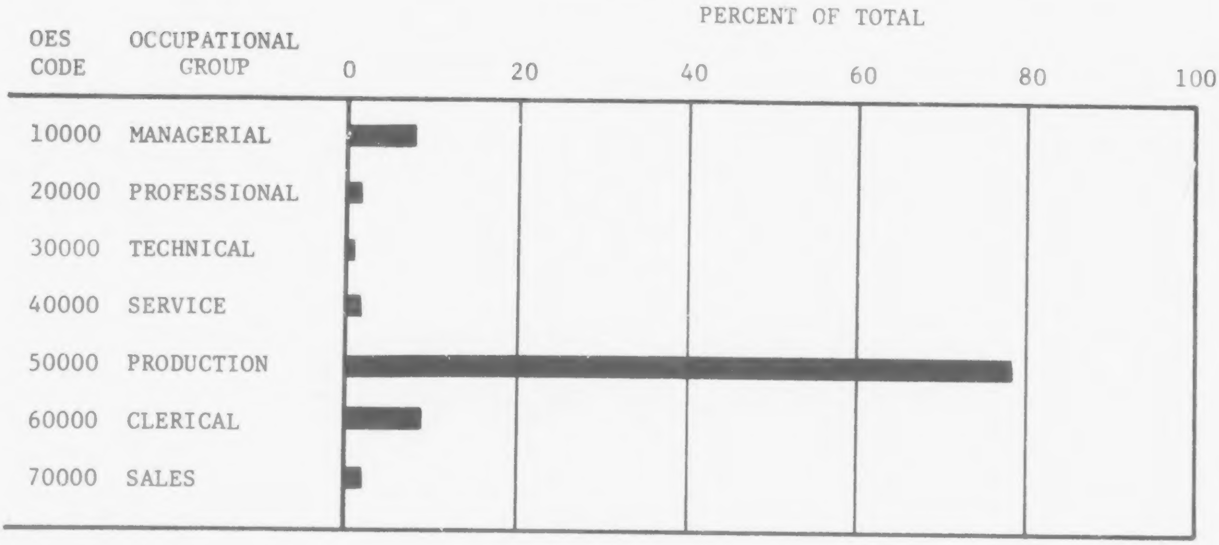
(SIC 24)

Order Fillers
Painters, Maintenance
Payroll and/or Timekeeping Clerks
Personnel and Labor Relations Specialists
Personnel Clerks
Plumbers and/or Pipefitters
Power Screwdriver Operators
Production Clerks and/or Coordinators
Receptionists
Rigging Slingers
Sales Clerks
Sawyers, Tail
Shipping and/or Receiving Clerks
Stationary Boiler Firers
Stock Clerks, Stock
Switchboard Operators
Switchboard Operators-Receptionists
Systems Analysts, Electronic Data Processing
Tally Clerks, Sawmill
Tenoner Operators
Typists
Welders and/or Flamecutters
Yarder Engineers

PERCENT DISTRIBUTION OF MAJOR OCCUPATIONAL GROUPS

LUMBER AND WOOD PRODUCTS EXCEPT FURNITURE

(SIC 24)



ANNUAL AVERAGE EMPLOYMENT (in thousands)*

1972-1980

LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE

(SIC 24)

	NEW HAMPSHIRE		UNITED STATES	
YEAR	ANNUAL AVERAGE	PERCENT CHANGE	ANNUAL AVERAGE	PERCENT CHANGE
1972	5.0	-	725.6	-
1973	5.3	6.0	759.2	4.6
1974	5.0	- 5.7	712.3	- 6.2
1975	4.2	- 16.0	614.7	- 13.7
1976	4.6	9.5	679.6	10.6
1977	4.9	6.5	721.9	6.2
1978	5.2	6.1	754.7	4.5
1979	5.3	1.9	766.1	1.5
1980**	4.7	- 11.3	686.9	- 10.3

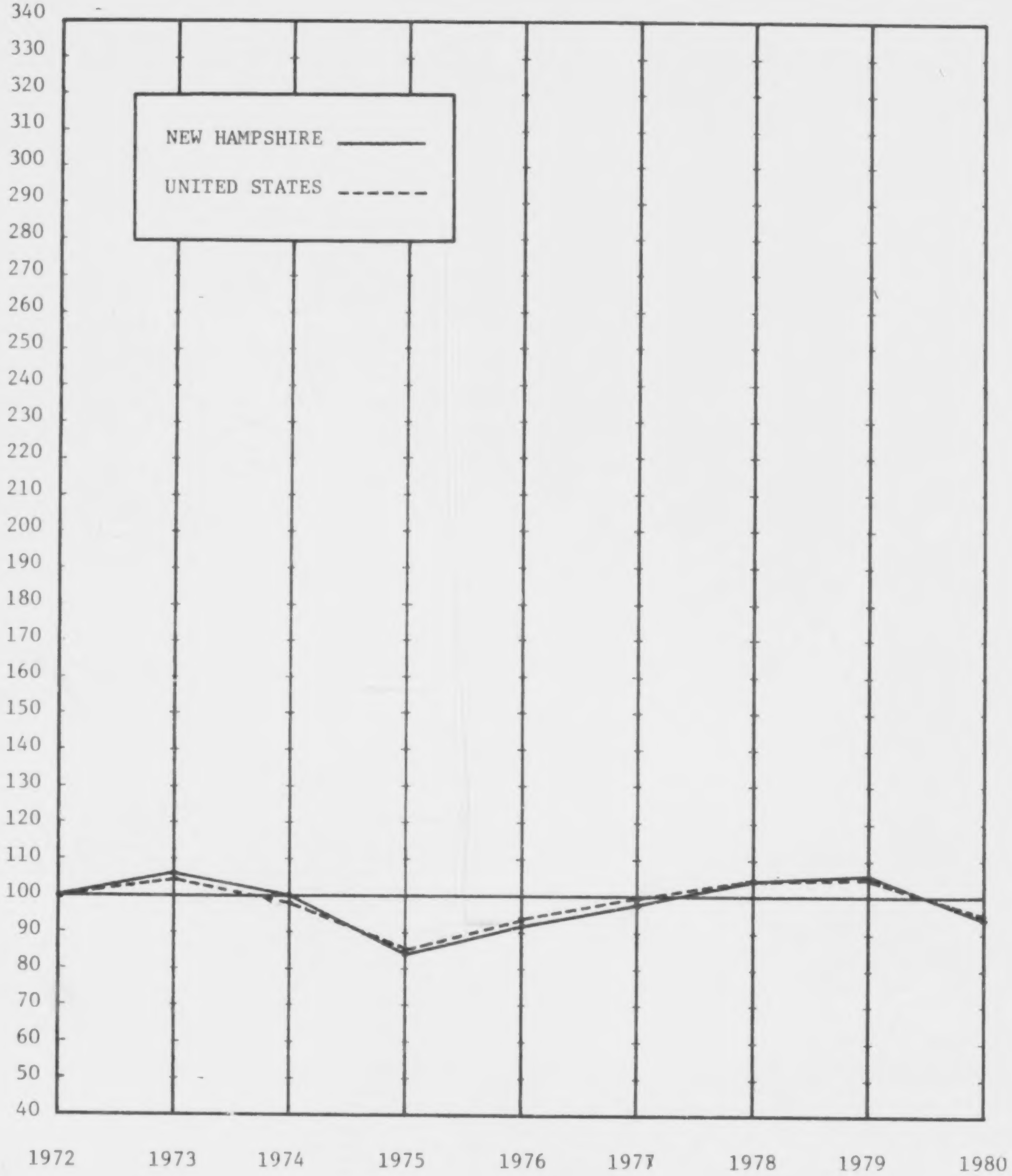
* Nonagricultural Employment

** Employment for 1980 based on preliminary data.

INDEXES OF EMPLOYMENT
NEW HAMPSHIRE AND THE UNITED STATES 1972 - 1980
1972 = 100

LUMBER AND WOOD PRODUCTS,
EXCEPT FURNITURE

(SIC 24)



OCCUPATIONAL EMPLOYMENT
DURABLE GOODS MANUFACTURING
FURNITURE AND FIXTURES
(SIC 25)

This major group includes establishments primarily engaged in manufacturing household, office, public building, and restaurant furniture; and office and store fixtures.

During the survey month of June 1980 there were 1,881 wage and salary workers in the furniture and fixtures industry. Nearly three of every four employees (1,406) were assigned to production occupations. This category also ranked first in a similar survey conducted in 1977 but employment has dropped by 98 workers (7 percent). Clerical occupations gained 73 new positions for an increase of more than 41 percent. The two largest occupations assemblers and wood sanders, had 150 and 112 employees respectively. Employment in both, however, slipped from the 1977 survey; assemblers decreased by 99 workers or 40 percent and there were 31 fewer wood sanders for a decline of 22 percent.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	JUNE 1980 ESTIMATED EMPLOYMENT
1	55U00	Assemblers	150
2	55N60	Sanders, Wood	112
3	55A38	Cabinetmakers	92
4	55B29	Supervisors, Nonworking	82
5	55L84	Off-Bearers	81
6	10000	Managers and Officers	75
7	55R68	Painters, Production	74
8	55N15	Ripsaw Operators	55
9	55C39	Production Packagers, Hand or Machine	38
	72002	Sales Clerks	38

THE SIX MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	10000	Managers and Officers	79.3
2	55U00	Assemblers	58.6
3	55R68	Painters, Production	51.7
4	54000	Truck Drivers	48.3
	55B29	Supervisors, Nonworking	48.3
	55N60	Sanders, Wood	48.3

STAFFING PATTERNS

FURNITURE AND FIXTURES

(SIC 25)

OCCUPATIONAL TITLE	OES CODE	JUNE 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
TOTAL ALL OCCUPATIONS		1,881	100.0				
MANAGERS AND OFFICERS	10000	75	4.0	6	80	70	79.3
PROFESSIONAL OCCUPATIONS	20000	57	3.0				
All Engineers	21000	6	0.3	NA	-	-	NA
Purchasing Agents and/or Buyers	25300	17	0.9	18	20	14	31.0
Accountants and Auditors	25401	18	1.0	12	20	16	34.5
All Other Professional Workers	29000	16	0.8	NA	-	-	NA
TECHNICAL OCCUPATIONS	30000	18	1.0				
Drafters	32003	14	0.8	14	.6	12	17.2
All Other Technicians	39000	4	0.2	NA	-	-	NA
SERVICE OCCUPATIONS	40000	23	1.2				
Janitors, Porters, and Cleaners	41000	18	1.0	11	20	16	41.4
All Other Service Workers	49000	5	0.2	NA	-	-	NA
PRODUCTION OCCUPATIONS	50000	1,406	74.8				
All Mechanics and Repairers	51000	7	0.4	NA	-	-	NA
Truck Drivers	54000	36	1.9	8	39	33	48.3
Cabinetmakers	55A38	92	4.9	12	103	81	34.5
Supervisors, Nonworking	55B29	82	4.4	6	87	77	48.3
Industrial Truck Operators	55B57	12	0.6	15	14	10	20.7
Inspectors	55B58	20	1.1	25	25	15	31.0
Maintenance Repairers, General Utility	55B86	22	1.2	10	24	20	27.6
Helpers, Trades	55B87	15	0.8	14	17	13	17.2

See page 184 for explanation of footnotes.

STAFFING PATTERNS

FURNITURE AND FIXTURES

(SIC 25)

OCCUPATIONAL TITLE	OES CODE	JUNE 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Production Packagers, Hand or Machine	55C39	38	2.0	15	44	32	20.7
Sewing Machine Operators Regular Equipment--Nongarment	55C78	13	0.7	29	17	9	6.9
Stationary Boiler Firers	55C90	14	0.7	26	18	10	13.8
Welders and/or Flamecutters	55D46	23	1.2	0	23	23	6.9
Furniture Finishers	55D86	13	0.7	35	18	8	10.3
Boring Machine Operators, Wood	55E98	29	1.5	14	33	25	27.6
Cut-Off Saw Operators, Lumber	55H19	31	1.7	7	33	29	37.9
Machine Setters, Woodworking	55K97	13	0.7	15	15	11	20.7
Off-Bearers	55L84	81	4.3	11	90	72	27.6
Ripsaw Operators	55N15	55	2.9	10	60	50	34.5
Rubbers	55N39	28	1.5	12	31	25	24.1
Sanders, Wood	55N60	112	6.0	7	120	104	48.3
Shaper and/or Router Operators	55P08	28	1.5	11	31	25	27.6
Tenoner Operators, Woodworking	55Q54	19	1.0	9	21	17	27.6
Variety Saw Operators	55R08	20	1.1	13	23	17	20.7
Woodworking Machine Operators	55R43	16	0.8	19	19	13	20.7
Painters, Production	55R68	74	3.9	7	79	69	51.7
Punch Press Operators, Metal	55R78	18	1.0	0	18	18	13.8
Power Brake and/or Bending Machine Operators, Metal	55S90	11	0.6	0	11	11	13.8
Assemblers	55U00	150	8.0	10	165	135	58.6
All Other Skilled Craft and Kindred Workers	59001	40	2.1	NA	-	-	NA
All Other Operatives and Semiskilled Workers	59002	168	8.9	NA	-	-	NA
All Other Laborers and Unskilled Workers	59003	126	6.7	NA	-	-	NA

See page 184 for explanation of footnotes.

STAFFING PATTERNS

FURNITURE AND FIXTURES

(SIC 25)

OCCUPATIONAL TITLE	OES CODE	JUNE 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
CLERICAL OCCUPATIONS	60000	248	13.2				
Keypunch Operators	61107	15	0.8	42	21	9	6.9
All Other Office Machine Operators	61199	7	0.4	NA	-	-	NA
Accounting Clerks	61301	15	0.8	12	17	13	24.1
Bookkeepers, Hand	61307	17	0.9	11	19	15	41.4
General Clerks, Office	61333	25	1.3	18	30	20	27.6
Order Clerks	61350	36	1.9	45	52	20	6.9
Secretaries	61368	18	1.0	9	20	16	34.5
All Other Office Clerical Workers	61900	37	2.0	NA	-	-	NA
Production Clerks and/or Coordinators	62003	17	0.9	10	19	15	31.0
Shipping Packers	62004	36	1.9	11	40	32	34.5
Shipping and/or Receiving Clerks	62005	19	1.0	10	21	17	31.0
All Other Plant Clerical Workers	62900	6	0.3	NA	-	-	NA
SALES OCCUPATIONS	70000	54	2.8				
Sales Representatives, Sales Agents, and/or Sales Associates	71000	16	0.8	17	19	13	20.7
Sales Clerks	72002	38	2.0	22	46	30	10.3

See page 184 for explanation of footnotes.

STAFFING PATTERNS

FURNITURE AND FIXTURES

(SIC 25)

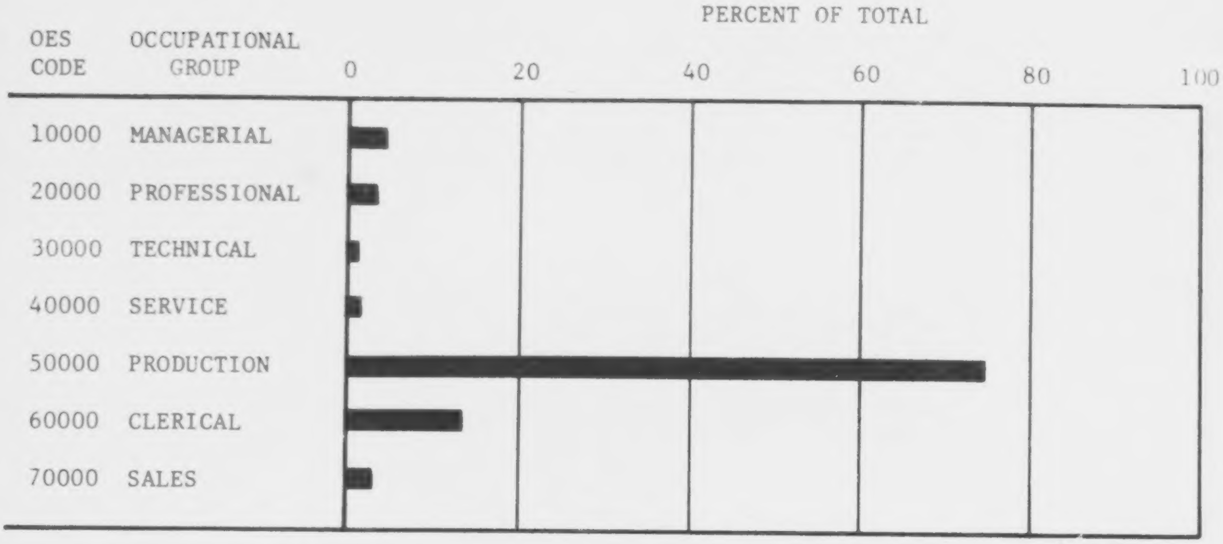
Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

- Carpenters
- Clerical Supervisors, Office or Plant
- Computer Operators
- Computer Programmers
- Cushion Makers
- Dado Operators
- Decorators, Hand
- Delivery and/or Route Workers
- Designers
- Dowel Machine Operators
- Electricians
- File Clerks
- Filers, Grinders, Buffers, Chippers, Cleaners, and/or Polishers
- Gluers and/or Cementers, Hand
- Gluing Machine Operators
- Industrial Engineers
- Laminating Machine Operators, Furniture
- Lathe Operators, Wood
- Lay Out Markers, Wood
- Machinists
- Mattress Makers
- Mechanical Engineers
- Mechanics, Maintenance
- Nailing Machine Operators
- Oilers
- Order Fillers
- Patternmakers
- Payroll and/or Timekeeping Clerks
- Personnel and Labor Relations Specialists
- Personnel Clerks
- Plastic Top Installers
- Power Screwdriver Operators
- Procurement Clerks
- Receptionists
- Sewing Machine Operators, Special and/or Automatic Equipment--Nongarment
- Shapers, Hand
- Shear and/or Slitter Operators, Metal
- Sheet Metal Workers
- Springers
- Statistical Clerks
- Stock Clerks, Stockroom, Warehouse or Storage Yard
- Supervisors, Nonworking -- Service Only
- Switchboard Operator-Receptionists
- Testers
- Tool and Die Makers
- Typists
- Upholsterers
- Upholstery Cutters
- Upholstery Trimmers
- Wood Machinists

PERCENT DISTRIBUTION OF MAJOR OCCUPATIONAL GROUPS

FURNITURE AND FIXTURES

(SIC 25)



ANNUAL AVERAGE EMPLOYMENT (in thousands)*

1972-1980

FURNITURE AND FIXTURES

(SIC 25)

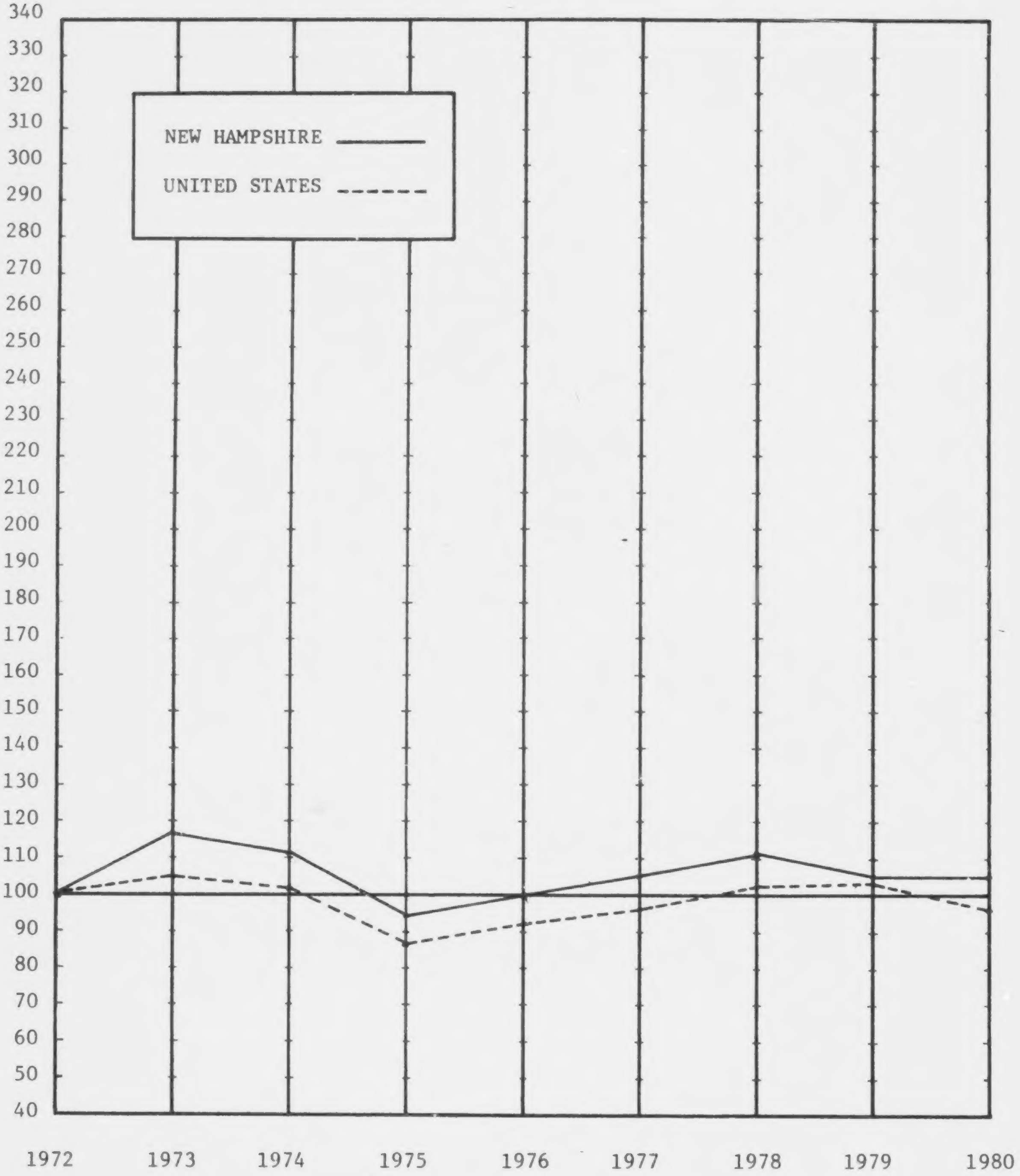
	NEW HAMPSHIRE		UNITED STATES	
YEAR	ANNUAL AVERAGE	PERCENT CHANGE	ANNUAL AVERAGE	PERCENT CHANGE
1972	1.8	-	483.3	-
1973	2.1	16.7	506.8	4.9
1974	2.0	- 4.8	489.3	- 3.5
1975	1.7	- 15.0	416.9	- 14.8
1976	1.8	5.9	444.3	6.6
1977	1.9	5.6	464.3	4.5
1978	2.0	5.3	494.1	6.4
1979	1.9	- 5.0	499.3	1.1
1980**	1.9	0	473.7	- 5.1

* Nonagricultural Employment

** Employment for 1980 based on preliminary data.

# INDEXES OF EMPLOYMENT
# NEW HAMPSHIRE AND THE UNITED STATES 1972 - 1980
1972 = 100

FURNITURE AND FIXTURES
(SIC 25)



OCCUPATIONAL EMPLOYMENT
DURABLE GOODS MANUFACTURING
STONE, CLAY, GLASS, AND CONCRETE PRODUCTS
(SIC 32)

This major group includes establishments primarily engaged in manufacturing flat glass and other glass products, cement, structural clay products, pottery, concrete and gypsum products, cut stone, abrasive and asbestos products, etc., from materials taken from the earth in the form of stone, clay, and sand.

Firms in this industry, during the survey of May 1980, employed 2,939 wage and salary workers, an increase of 537 or 22 percent over a similar survey taken three years earlier. Over 75 percent of total employment was concentrated in production related jobs which increased by 378 since 1977.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	MAY 1980 ESTIMATED EMPLOYMENT
1	54000	Truck Drivers	298
2	10000	Managers and Officers	190
3	55R58	Press Operators	158
4	55B58	Inspectors	143
5	55C39	Production Packagers, Hand or Machine	116
6	55B29	Supervisors, Nonworking	79
7	55N91	Selectors, Glassware	75
8	55B86	Maintenance Repairers, General Utility	68
9	71000	Sales Representatives, Sales Agents, and/or Sales Associates	59
10	55B57	Industrial Truck Operators	51

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	10000	Managers and Officers	88.1
2	54000	Truck Drivers	42.9
3	55B57	Industrial Truck Operators	38.1
4	61333	General Clerks, Office	35.7
5	55B29	Supervisors, Nonworking	31.0

STAFFING PATTERNS

STONE, CLAY, GLASS, AND CONCRETE PRODUCTS

(SIC 32)

OCCUPATIONAL TITLE	OES CODE	MAY 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
TOTAL ALL OCCUPATIONS		2,939	100.0				
MANAGERS AND OFFICERS	10000	190	6.5	5	200	180	88.1
PROFESSIONAL OCCUPATIONS	20000	93	3.1				
Mechanical Engineers	21008	19	0.6	9	21	17	9.5
All Other Engineers	21900	16	0.6	NA	-	-	NA
Chemists	22201	10	0.3	21	12	8	4.8
Systems Analysts, Electronic Data Processing	24000	10	0.3	15	12	8	4.8
Accountants and Auditors	25401	15	0.5	9	16	14	14.3
All Other Professional Workers	29000	23	0.8	NA	-	-	NA
TECHNICAL OCCUPATIONS	30000	72	2.4				
Drafters	32003	27	0.9	8	29	25	9.5
Mechanical Engineering Technicians	32010	23	0.8	11	26	20	4.8
Science Technicians	33000	10	0.3	12	11	9	2.4
All Other Technicians	39000	12	0.4	NA	-	-	NA
SERVICE OCCUPATIONS	40000	67	2.3				
Janitors, Porters, and Cleaners	41000	41	1.4	9	45	37	21.4
Guards and Doorkeepers	42000	12	0.4	10	13	11	4.8
Supervisors, Nonworking--Service Only	44014	14	0.5	2	14	14	2.4
PRODUCTION OCCUPATIONS	50000	2,225	75.7				
Mechanics, Automotive	51008	33	1.1	19	39	27	21.4
Mechanics, Maintenance	51043	26	0.9	31	34	18	14.3
Truck Drivers	54000	298	10.1	17	349	247	42.9
Supervisors, Nonworking	55B29	79	2.7	8	85	73	31.0
Heavy Equipment Operators	55B52	17	0.6	35	23	11	9.5

See page 184 for explanation of footnotes.

STAFFING PATTERNS

STONE, CLAY, GLASS, AND CONCRETE PRODUCTS

(SIC 32)

OCCUPATIONAL TITLE	OES CODE	MAY 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
Industrial Truck Operators	55B57	51	1.6	16	59	43	38.1
Inspectors	55B58	143	4.9	10	157	129	14.3
Maintenance Repairers, General Utility	55B86	68	2.3	20	82	54	26.2
Order Fillers	55C08	22	0.7	15	25	19	2.4
Production Packagers, Hand or Machine	55C39	116	4.0	4	121	111	23.8
Blockmaking Machine Operators	55E86	41	1.4	43	59	23	9.5
Breakers	55F14	18	0.6	2	18	18	2.4
Forming Machine Operators, Glass Container	55I97	13	0.4	0	13	13	2.4
Glass Cut-Off Machine Operators and/or Cutting Machine Operators	55J34	35	1.2	2	36	34	2.4
Glass Grinders and/or Watch Crystal Edge Grinders	55J37	32	1.1	2	33	31	2.4
Molding Machine Operators	55L63	13	0.4	11	14	12	2.4
Power Press Tenders	55M51	16	0.6	11	18	14	2.4
Refactory Grinders Operators	55N03	20	0.7	11	22	18	2.4
Sandblasters, Stone	55N54	11	0.4	2	11	11	4.8
Sawyers, Stone	55N65	47	1.6	9	51	43	9.5
Selectors, Glassware	55N91	75	2.6	2	76	74	2.4
Stone Cutters, Hand	55Q20	47	1.6	3	48	46	7.1
Stone Cutters, Machine	55Q21	17	0.6	0	17	17	2.4
Stone Polishers	55Q25	17	0.6	12	19	15	7.1
Testers	55Q57	18	0.6	16	21	15	7.1
Press Operators	55R58	158	5.4	12	177	139	2.4
Mixers, Stone, Clay, Glass and Related Products	55S04	12	0.4	13	14	10	9.5
Decorators, Hand	55V04	44	1.5	7	47	41	4.8
Furnace, Kiln, Drier, or Oven Operator/Tenders	55V11	16	0.6	21	19	13	11.9
Batch Plant Operators	57004	42	1.4	23	52	32	26.2
All Other Skilled Craft and Kindred Workers	59001	66	2.2	NA	-	-	NA

See page 184 for explanation of footnotes.

STAFFING PATTERNS

STONE, CLAY, GLASS, AND CONCRETE PRODUCTS

(SIC 32)

OCCUPATIONAL TITLE	OES CODE	MAY 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
All Other Operatives and Semiskilled Workers	59002	244	8.3	NA	-	-	NA
All Other Laborers and Unskilled Workers	59003	370	12.6	NA	-	-	NA
CLERICAL OCCUPATIONS	60000	231	7.9				
All Office Machine Operators	61100	12	0.4	NA	-	-	NA
Bookkeepers, Hand	61307	26	0.9	21	31	21	28.6
General Clerks, Office	61333	37	1.2	15	43	31	35.7
Order Clerks	61350	11	0.4	5	12	10	11.9
Secretaries	61368	30	1.0	10	33	27	26.2
Clerical Supervisors	61396	10	0.3	8	11	9	7.1
All Other Office Clerical Workers	61900	40	1.4	NA	-	-	NA
Shipping Packers	62004	16	0.6	16	19	13	14.3
Shipping and/or Receiving Clerks	62005	27	0.9	2	28	26	11.9
Dispatchers, Vehicle, Service or Work	62018	11	0.4	30	14	8	7.1
All Other Plant Clerical Workers	62900	11	0.4	NA	-	-	NA
SALES OCCUPATIONS	70000	61	2.1				
Sales Representatives, Sales Agents, and/or Sales Associates	71000	59	2.0	10	65	53	23.8
All Other Sales Workers	79000	2	0.1	NA	-	-	NA

See page 184 for explanation of footnotes.

STAFFING PATTERNS

STONE, CLAY, GLASS, AND CONCRETE PRODUCTS

(SIC 32)

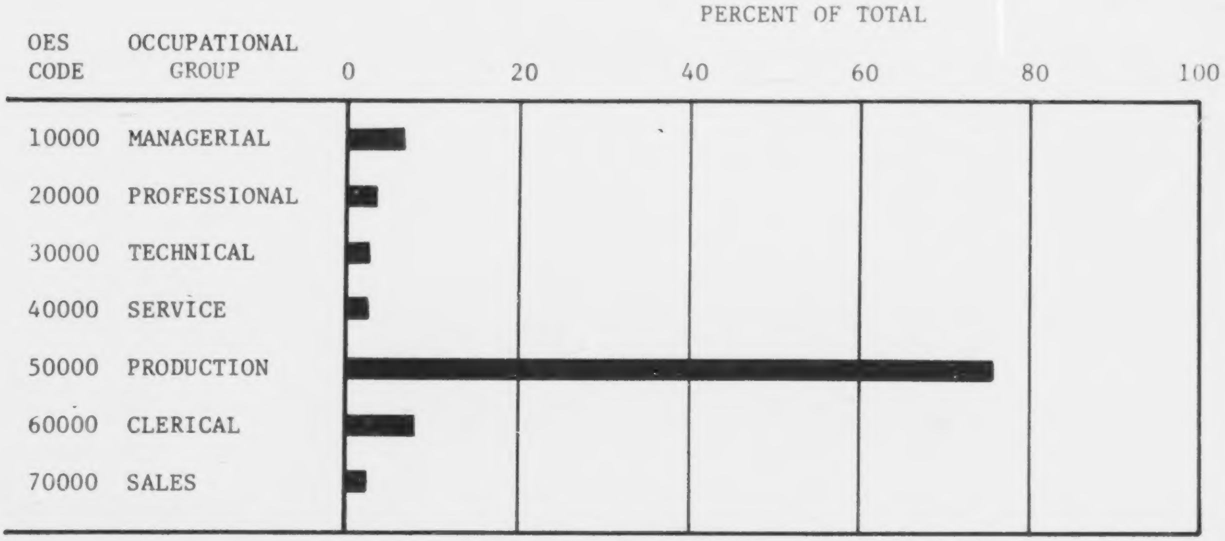
Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

- Abrasive Grinders
- Accounting Clerks
- Bookkeeping and/or Billing Machine Operators
- Braiding Machine Operators
- Brick and Tile Making Machine Operators
- Cage Makers, Hand or Machine
- Calender Machine Operators
- Card Tenders, Comber Tenders, and/or Card Strippers
- Carpenters
- Casters, Pottery and Porcelain
- Ceramic Engineers
- Chemical Engineers
- Clay Makers
- Computer Operators
- Computer Programmers
- Concrete Pipe Makers
- Concrete Stone Fabricators
- Concrete Vault Makers
- Conveyor Operators or Tenders
- Crane, Derrick, and Hoist Operators
- Delivery and/or Route Workers
- Designers
- Drillers, Machine
- Electrical and Electronic Engineers
- Electrical and Electronic Technicians
- Electricians
- Floor Workers, Glass
- Forming-Machine Maintainers, Glass
- Glass Blowers, Glassware and/or Laboratory Apparatus
- Grinding and/or Abrading Machine Operators, Metal
- Helpers, Trades
- Industrial Engineers
- Industrial Engineering Technicians
- Instrument Repairers
- Keypunch Operators
- Machine Tool Operators, Combination
- Machinists
- Millers, Clay
- Model and/or Mold Makers
- Nurses, Professional
- Oilers

PERCENT DISTRIBUTION OF MAJOR OCCUPATIONAL GROUPS

STONE, CLAY, GLASS, AND CONCRETE PRODUCTS

(SIC 32)



ANNUAL AVERAGE EMPLOYMENT (in thousands)*

1972-1980

STONE, CLAY, GLASS, AND CONCRETE PRODUCTS

(SIC 32)

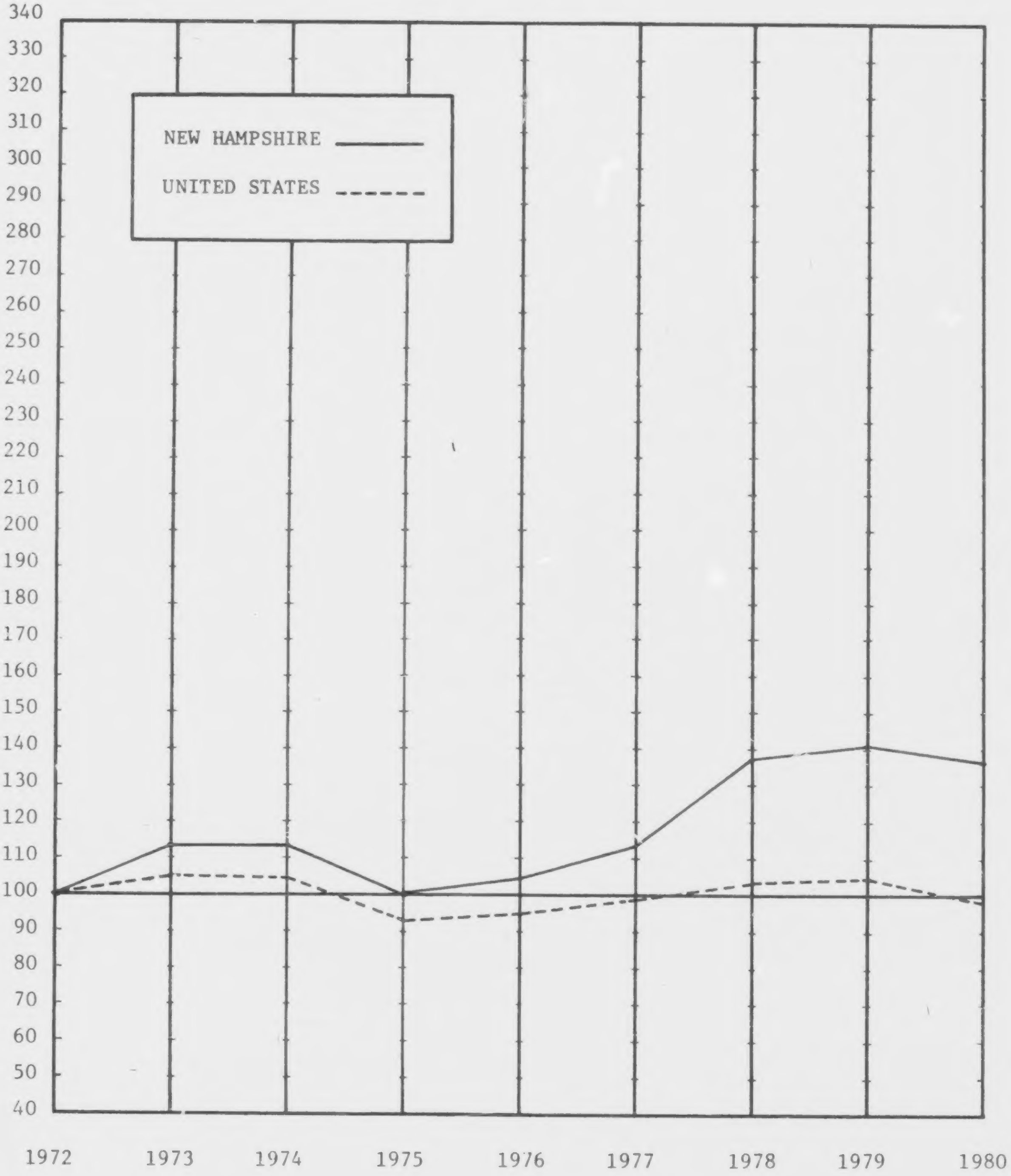
	NEW HAMPSHIRE		UNITED STATES	
YEAR	ANNUAL AVERAGE	PERCENT CHANGE	ANNUAL AVERAGE	PERCENT CHANGE
1972	2.2	-	678.1	-
1973	2.5	13.6	715.7	5.5
1974	2.5	0	707.7	- 1.1
1975	2.2	- 12.0	629.0	- 11.1
1976	2.3	4.5	644.4	2.4
1977	2.5	10.7	668.7	3.8
1978	2.8	12.0	698.2	4.4
1979	3.1	10.7	709.7	1.6
1980 **	3.0	- 3.2	667.9	- 5.9

* Nonagricultural Employment

** Employment for 1980 based on preliminary data.

# INDEXES OF EMPLOYMENT
# NEW HAMPSHIRE AND THE UNITED STATES 1972 - 1980
1972 = 100

STONE, CLAY, GLASS, AND CONCRETE PRODUCTS
(SIC 32)



OCCUPATIONAL EMPLOYMENT
DURABLE GOODS MANUFACTURING
PRIMARY METAL INDUSTRIES
(SIC 33)

This major group includes establishments engaged in the smelting and refining of ferrous and nonferrous metals from ore, pig, or scrap; in the rolling, drawing, and alloying of ferrous and nonferrous metals; in the manufacture of castings and other basic products of ferrous and nonferrous metals; and in the manufacture of nails, spikes, and insulated wire and cable. This major group also includes the production of coke.

During the survey month of April 1980 there were 3,741 wage and salary workers employed in the primary metals industries which represented a substantial gain of 1,226 workers during the three year period since the previous survey for the same month of 1977. The production and production related occupational group remained proportionately stable since the last survey to maintain a level of over 80 percent of the total employment for the industry. The three most prominent single occupations, filers, grinders, buffers, chippers, cleaners, and or polishers (378 workers), managers and officers (207 workers), and inspectors (151 workers) combined to make up almost 20 percent of the total work force in this industry.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	APRIL 1980 ESTIMATED EMPLOYMENT
1	55B19	Filers, Grinders, Buffers, Chippers, Cleaners, and/or Polishers	378
2	10000	Managers and Officers	207
3	55B58	Inspectors	151
4	55I47	Insulating, Extruding Machine Operators and/or Insulating Lead Press Operators	140
5	55L57	Molders, Bench and/or Floor	137
6	55B29	Supervisors, Nonworking	127
7	55G86	Coremakers, Machine	124
8	55R30	Wax Pattern Workers	107
9	55C27	Pourers, Metal	74
10	55B86	Maintenance Repairers, General Utility	69

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	10000	Managers and Officers	95.2
2	55B29	Supervisors, Nonworking	66.7
3	25300	Purchasing Agents and/or Buyers	57.1
4	55B86	Maintenance Repairers, General Utility	52.4
	62004	Shipping Packers	52.4

STAFFING PATTERNS

PRIMARY METAL INDUSTRIES

(SIC 33)

OCCUPATIONAL TITLE	OES CODE	APRIL 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
TOTAL ALL OCCUPATIONS		3,741	100.0				
MANAGERS AND OFFICERS	10000	207	5.5	7	221	193	95.2
PROFESSIONAL OCCUPATIONS	20000	148	4.0				
Mechanical Engineers	21008	15	0.4	15	17	13	28.6
All Other Engineers	21900	57	1.5	NA	-	-	NA
Purchasing Agents and/or Buyers	25300	29	0.8	10	32	26	57.1
Accountants and Auditors	25401	33	0.9	16	38	28	42.9
All Other Professional Workers	29000	14	0.4	NA	-	-	NA
TECHNICAL OCCUPATIONS	30000	87	2.3				
Electrical and Electronic Technicians	32004	38	1.0	16	44	32	14.3
All Other Engineering Technicians	32900	47	1.2	NA	-	-	NA
All Other Technicians	39000	2	0.1	NA	-	-	NA
SERVICE OCCUPATIONS	40000	31	0.8				
Janitors, Porters, and Cleaners	41000	28	0.7	22	34	22	42.9
All Other Service Workers	49000	3	0.1	NA	-	-	NA
PRODUCTION OCCUPATIONS	50000	3,011	80.5				
Mechanics, Maintenance	51043	16	0.4	11	18	14	23.8
All Other Mechanics and Repairers	51900	1	*	NA	-	-	NA
Truck Drivers	54000	10	0.3	16	12	8	19.0
Electricians	55B12	19	0.5	15	22	16	23.8
Filers, Grinders, Buffers, Chippers, Cleaners, and/or Polishers	55B19	378	10.1	12	423	333	42.9

See page 184 for explanation of footnotes.

STAFFING PATTERNS

PRIMARY METAL INDUSTRIES

(SIC 33)

OCCUPATIONAL TITLE	OES CODE	APRIL 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Supervisors, Nonworking	55B29	127	3.4	14	145	109	66.7
Industrial Truck Operators	55B57	22	0.6	16	26	18	19.0
Inspectors	55B58	151	4.0	27	192	110	42.9
Machinists	55B84	27	0.7	30	35	19	33.3
Maintenance Repairers, General Utility	55B86	69	1.9	15	79	59	52.4
Helpers, Trades	55B87	17	0.5	34	23	11	23.8
Millwrights	55B95	26	0.7	26	33	19	9.5
Pourers, Metal	55C27	74	2.0	39	103	45	28.6
Production Packagers, Hand or Machine	55C39	16	0.4	2	16	16	9.5
Sandblasters	55C64	46	1.2	16	53	39	28.6
Coilers, Winder and/or Spooler	55G51	19	0.5	19	23	15	14.3
Coremakers, Hand, Bench, and/or Floor	55G85	18	0.5	46	26	10	19.0
Coremakers, Machine	55G86	124	3.3	35	167	81	33.3
Drill Press and/or Boring Machine Operators	55H95	39	1.0	42	55	23	19.0
Insulating Extruding Machine Operators and/or Insulating Lead Press Operators	55I47	140	3.8	40	196	84	19.0
Heat Treaters, Annealers, and/or Temperers	55J85	31	0.8	25	39	23	19.0
Lathe and/or Turning Machine Operators, Metal	55K58	22	0.6	41	31	13	19.0
Molders, Bench and/or Floor	55L57	137	3.7	25	171	103	28.6
Molders, Machine	55L61	53	1.4	43	76	30	28.6
Patternmakers, Wood	55M10	18	0.5	34	24	12	23.8
Samplers and/or Test Preparers	55N52	20	0.5	27	25	15	4.8
Shakeout Workers, Foundry	55P03	48	1.3	45	70	26	38.1
Shell-Mold and/or Shell-Core Machine Operators	55P13	27	0.7	30	35	19	14.3

See page 184 for explanation of footnotes.

STAFFING PATTERNS

PRIMARY METAL INDUSTRIES

(SIC 33)

OCCUPATIONAL TITLE	OES CODE	APRIL 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Stranding Machine Operators	55Q31	27	0.7	12	30	24	14.3
Testers	55Q57	38	1.0	33	51	25	19.0
Wax Pattern Workers	55R30	107	2.9	42	152	62	14.3
Wire Drawers	55R41	26	0.7	21	31	21	9.5
Core Assemblers, Pasters and/or Finishers	55S09	19	0.5	15	22	16	9.5
Furnace Operators and/or Cupola Tenders	55S16	42	1.1	34	56	28	38.1
Insulation Wrapping or Braiding Machine Operators	55S52	38	1.0	21	46	30	9.5
Mill and/or Grinder Operators, Minerals	55S98	53	1.4	44	76	30	9.5
Mold Closers, Core Setters and/or Weight and Jacket Setters	55T73	23	0.6	28	29	17	14.3
All Other Skilled Craft and Kindred Workers	59001	140	3.8	NA	-	-	NA
All Other Operatives and Semiskilled Workers	59002	481	12.9	NA	-	-	NA
All Other Laborers and Unskilled Workers	59003	322	8.6	NA	-	-	NA
CLERICAL OCCUPATIONS	60000	235	6.3				
Bookkeeping and/or Billing Machine Operators	61103	15	0.4	27	19	11	19.0
All Other Office Machine Operators	61199	2	0.1	NA	-	-	NA
Bookkeepers, Hand	61307	20	0.5	44	29	11	23.8
General Clerks, Office	61333	23	0.6	27	29	17	38.1
Receptionists	61361	10	0.3	15	12	8	19.0
Secretaries	61368	25	0.7	23	31	19	42.9
Typists	61392	12	0.3	25	15	9	19.0
All Other Office Clerical Workers	61900	40	1.1	NA	-	-	NA
Production Clerks and/or Coordinators	62003	12	0.3	28	15	9	23.8
Shipping Packers	62004	37	1.0	30	48	26	52.4
Shipping and/or Receiving Clerks	62005	27	0.7	35	36	18	47.6
Stock Clerks, Stockroom, Warehouse or Storage Yard	62008	12	0.3	24	15	9	19.0
SALES OCCUPATIONS	70000	22	0.6				
Sales Representatives, Sales Agents, and/or Sales Associates	71000	16	0.4	15	18	14	33.3
All Other Sales Workers	79000	6	0.2	NA	-	-	NA

See page 184 for explanation of footnotes.

STAFFING PATTERNS

PRIMARY METAL INDUSTRIES

(SIC 33)

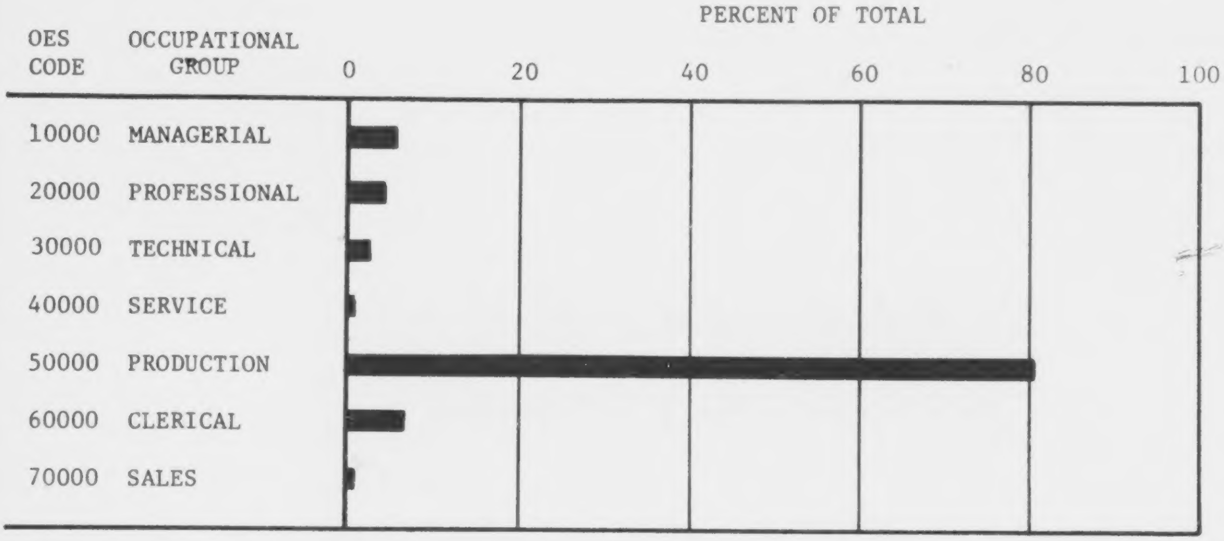
Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

Accounting Clerks
Assemblers
Blacksmiths
Carpenters
Casters, Finished or Semi-Finished Products
Chemical Engineers
Clerical Supervisors, Office or Plant
Computer Operators
Computer Programmers
Crane, Derrick, and Hoist Operators
Delivery and/or Route Workers
Die-Casting Machine Operators, Metal and/or Die-Casting Operators
Die Polishers, Wire and/or Tube
Drafters
Electrical and Electronic Engineers
Electroplaters
Furnace Operator Helpers or Heater Helpers
Grinding and/or Abrading Machine Operators, Metal
Guards and Doorkeepers
Industrial Engineering Technicians
Industrial Engineers
Instrument Repairers
Machine Tool Operators, Combination
Machine Tool Operators, Numerical Control
Machine Tool Operators, Toolroom
Mechanical Engineering Technicians
Metal Engineers
Milling and/or Planing Machine Operators
Mixer Operators, Hot Metal
Nurses, Professional
Oilers
Order Clerks
Order Fillers
Painters, Maintenance
Painters, Production
Patternmakers, Metal
Payroll and/or Timekeeping Clerks
Personnel and Labor Relations Specialists
Personnel Clerks
Picklers, Continuous Pickling Line
Plumbers and/or Pipefitters
Pot Tenders
Precipitator Operators
Procurement Clerks
Punch-Press Operators, Metal
Radiographers
Refractory Materials Repairers
Rolling Mill Operators and/or Attendants, Rough or Finished
Sales Clerks
Sand Cutters, Mixers and/or Slingers
Sawyers, Metal
Scrap Sorters
Setters, Molding and Coremaking Machine
Shear and/or Slitter Operators, Metal
Spectroscopists
Stationary Boiler Firers
Stripping Machine Operators, Insulated Wire
Switchboard Operators
Switchboard Operator/Receptionists
Tool and Die Makers
Tool Programmers, Numerical Control
Weighers, Production
Welders and/or Flamecutters

PERCENT DISTRIBUTION OF MAJOR OCCUPATIONAL GROUPS

PRIMARY METAL INDUSTRIES

(SIC 33)



ANNUAL AVERAGE EMPLOYMENT (in thousands)*

1972-1980

PRIMARY METAL INDUSTRIES

(SIC 33)

	NEW HAMPSHIRE		UNITED STATES	
YEAR	ANNUAL AVERAGE	PERCENT CHANGE	ANNUAL AVERAGE	PERCENT CHANGE
1972	2.5	-	1,173.3	-
1973	2.8	12.0	1,259.1	7.3
1974	2.9	3.6	1,288.8	2.4
1975	2.4	- 17.2	1,139.0	- 11.6
1976	2.5	4.2	1,154.9	1.4
1977	2.6	4.0	1,181.6	2.3
1978	2.8	7.7	1,214.9	2.8
1979	3.3	17.9	1,250.2	2.9
1980 **	3.9	18.2	1,133.3	- 9.4

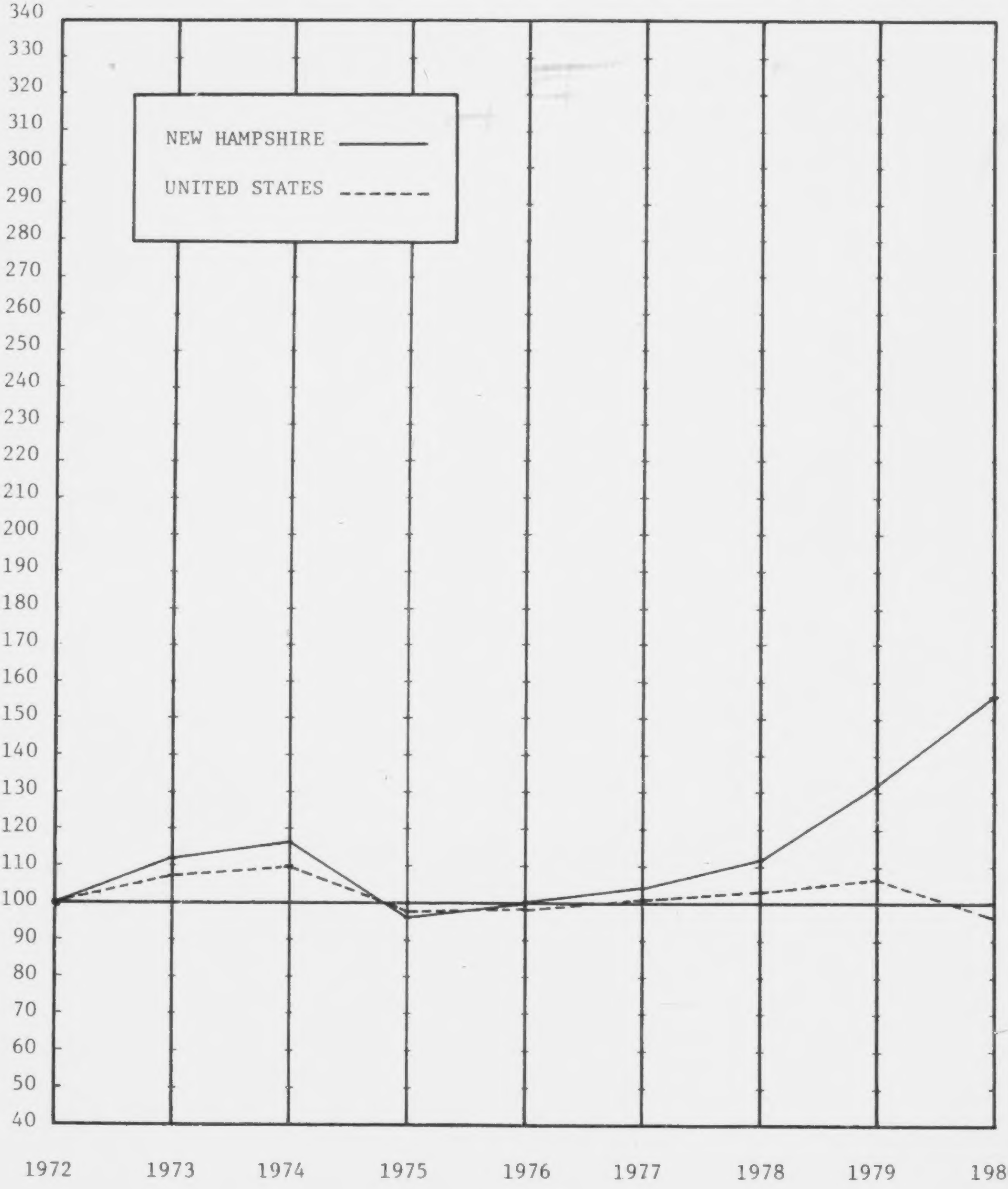
* Nonagricultural Employment

** Employment for 1980 based on preliminary data.

INDEXES OF EMPLOYMENT
NEW HAMPSHIRE AND THE UNITED STATES 1972 - 1980
1972 = 100

PRIMARY METAL INDUSTRIES

(SIC 33)



OCCUPATIONAL EMPLOYMENT
DURABLE GOODS MANUFACTURING
FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND TRANSPORTATION EQUIPMENT
(SIC 34)

This major group includes establishments primarily engaged in fabricating ferrous and nonferrous metal products such as metal cans, tinware, hand tools, cutlery, general hardware, nonelectric heating apparatus, fabricated structural metal products, metal forgings, metal stampings, ordnance (except vehicles and guided missiles), and a variety of metal and wire products not elsewhere classified.

During the survey month of June 1980 there were 7,413 wage and salary workers employed in this industry which reflected an increase of 870 new jobs since the previous survey during the same month three years ago. The largest occupational group, production and production related occupations, employed 5,778 workers, or 78 percent of the total employment in this major group. The three leading single occupations, assemblers with 692 workers, machine tool operators (combination) with 498 workers, and managers and officers with 344 workers combined to constitute more than 20 percent of the total employment in this industry.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	JUNE 1980 ESTIMATED EMPLOYMENT
1	55U00	Assemblers	692
2	55L01	Machine Tool Operators, Combination	498
3	10000	Managers and Officers	344
4	55D46	Welders and/or Flamecutters	341
5	55B29	Supervisors, Nonworking	335
6	55B19	Filers, Grinders, Buffers, Chippers, Cleaners, and/or Polishers	288
7	55R78	Punch-Press Operators, Metal	219
8	55B58	Inspectors	184
9	55K58	Lathe and/or Turning Machine Operators, Metal	164
10	55D23	Tool and Die Makers	156

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	10000	Managers and Officers	86.4
2	55B29	Supervisors, Nonworking	55.7
3	61333	General Clerks, Office	48.9
4	55U00	Assemblers	40.9
5	61368	Secretaries	39.8

STAFFING PATTERNS

FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND TRANSPORTATION EQUIPMENT

(SIC 34)

OCCUPATIONAL TITLE	OES CODE	1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
TOTAL ALL OCCUPATIONS		7,413	100.0				
MANAGERS AND OFFICERS	10000	344	4.6	4	358	330	86.4
PROFESSIONAL OCCUPATIONS	20000	342	4.6				
Industrial Engineers	12006	122	1.7	16	142	102	9.1
Mechanical Engineers	21008	84	1.1	26	106	62	19.3
All Other Engineers	21900	13	0.2	NA	-	-	NA
Puchasing Agents and/or Buyers	25300	30	0.4	10	33	27	19.3
Accountants and Auditors	25401	31	0.4	12	35	27	23.9
Cost Estimators, Engineering	25427	24	0.3	13	27	21	12.5
All Other Professional Workers	29000	38	0.5	NA	-	-	NA
TECHNICAL OCCUPATIONS	30000	92	1.2				
Drafters	32003	61	0.8	16	71	51	20.5
Mechanical Engineering Technicians	32010	16	0.2	2	16	16	4.5
All Other Engineering Technicians	32900	12	0.2	NA	-	-	NA
ALL OTHER TECHNICIANS	29000	3	*	NA	-	-	NA
SERVICE OCCUPATIONS	40000	99	1.4				
Janitors, Porters, and Cleaners	41000	78	1.1	5	82	74	33.0
Supervisors, Nonworking-Service Only	44014	11	0.2	0	11	11	1.1
All other Service Workers	49000	10	0.1	NA	-	-	NA
PRODUCTION OCCUPATIONS	50000	5,778	78.0				
Mechanics, Maintenance	51043	117	1.6	7	125	109	21.6
All Other Mechanics and Repairers	51900	8	0.1	NA	-	-	NA

See page 184 for explanation of footnotes.

STAFFING PATTERNS

FABRICATED METAL PRODUCTS,

EXCEPT MACHINERY AND TRANSPORTATION EQUIPMENT

(SIC 34)

OCCUPATIONAL TITLE	OES CODE	1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Truck Drivers	54000	43	0.6	13	49	37	29.5
Electricians	55B12	16	0.2	5	17	15	8.0
Filers, Grinders, Buffers, Chippers, Cleaners and/or Polishers	55B19	288	3.9	9	314	262	20.5
Supervisor, Nonworking	55B29	335	4.5	4	348	322	55.7
Riggers	55B54	30	0.4	20	36	24	2.3
Industrial Truck Operators	55B57	61	0.8	9	66	56	20.5
Inspectors	55B58	184	2.5	10	202	166	33.0
Machinists	55B54	32	0.4	17	37	27	9.1
Maintenance Repairers, General Utility	55B86	48	0.7	8	52	44	15.9
Helpers, Trades	55B87	79	1.1	22	96	62	21.6
Metal Fabricators	55B91	141	1.9	20	169	113	8.0
Order Fillers	55C08	12	0.2	5	13	11	3.4
Electroplaters	55C29	112	1.5	11	124	100	10.2
Production Packagers, Hand or Machine	55C39	101	1.4	9	110	92	26.1
Sandblasters and/or Shotblasters	55C64	17	0.2	9	19	15	6.8
Sheet Metal Workers	55C81	84	1.1	22	102	55	12.5
Tool and Die Makers	55D23	156	2.1	15	179	133	21.6
Welders and/or Flamecutters	55D46	341	4.6	8	368	314	35.2
Drill Press and/or Boring Machine Operators	55H95	140	1.9	5	147	133	23.9
Grinding and/or Abrading Machine Operators, Metal	55J63	140	1.9	5	147	133	19.3
Heater Operators	55J84	18	0.3	0	18	18	2.3
Heat Treaters, Annealers, and/or Temperers	55J85	17	0.2	0	17	17	3.4
Lathe and/or Turning Machine Operators, Metal	55k58	164	2.2	4	171	157	14.8
Lay-Out Markers, Metal	55k61	44	0.6	23	54	34	14.8
Machine Tool Operators, Combination	55L01	498	6.7	4	518	478	20.5
Machine Tool Setters, Metal Working	55L04	135	1.8	5	142	128	18.2

See page 184 for explanation of footnotes.

STAFFING PATTERNS

FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND TRANSPORTATION EQUIPMENT

(SIC 34)

OCCUPATIONAL TITLE	OES CODE	1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Milling and/or Planning Machine Operators	55L31	30	0.4	0	30	30	2.3
Molders, Machine	55L61	38	0.5	0	38	38	1.1
Plater Helper	55M32	91	1.2	11	101	81	11.4
Shakeout Workers, Foundry	55P03	32	0.4	0	32	32	1.1
Testers	55Q57	17	0.2	10	19	15	4.5
Woodworking Machine Operators	55R43	76	1.0	0	76	76	2.3
Painters, Production	55R68	94	1.3	18	111	77	22.7
Punch-Press Operators, Metal	55R78	219	3.0	14	250	188	29.5
Punch-Press Setters, Metal	55R79	27	0.4	31	35	19	4.5
Shear and/or Slitter Operators, Metal	55R80	30	0.4	35	40	20	14.8
Compression and/or Injection Molding Machine Operator, Plastics	55R85	33	0.5	0	33	33	3.4
Conveyor Operators or Tenders	55R90	22	0.3	3	23	21	2.3
Furnace Operators and/or Cupola Tenders	55S16	13	0.2	0	13	13	2.3
Fillers, Structural Metal	55S31	16	0.2	30	21	11	3.4
Bodymaker Operators, Tin Can	55S33	13	0.2	0	13	13	1.1
Power Brake and/or Bending Machine Operators, Metal	55S90	84	1.1	15	97	71	23.9
Assemblers	55U00	692	9.3	12	775	609	40.9
All Other Skilled Craft And Kindred Workers	59001	135	1.8	NA	-	-	NA
All Other Operatives and Semiskilled Workers	59002	409	5.5	NA	-	-	NA
All Other Laborers and Unskilled Workers	59003	346	4.7	NA	-	-	NA
CLERICAL OCCUPATIONS	60000	690	9.3				
All Office Machine Operators	61100	18	0.3	NA	-	-	NA
Accounting Clerks	61301	14	0.2	19	17	11	10.2
Bookkeepers, Hand	61307	51	0.7	10	56	45	33.0

See page 184 for explanation of footnotes.

STAFFING PATTERN

FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND TRANSPORTATION EQUIPMENT

(SIC 34)

OCCUPATIONAL TITLE	OES CODE	1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
General Clerks, Office	61333	133	1.8	7	142	124	48.9
Order Clerks	61350	16	0.2	48	24	8	5.7
Payroll and/or Timekeeping Clerks	61351	22	0.3	9	24	20	13.6
Procurement Clerks	61355	10	0.1	25	12	8	8.0
Secretaries	61368	76	1.0	8	82	70	39.8
Switchboard Operator/ Receptionists	61377	15	0.2	18	18	12	13.6
Typists	61392	22	0.3	5	23	21	8.0
All Other Office Clerical Workers	61900	77	1.0	NA	-	-	NA
Production Clerks and/or Coordinators	62003	52	0.7	12	58	46	13.6
Shipping Packers	62004	56	0.8	21	68	44	14.8
Shipping and/or Receiving Clerks	62005	32	0.4	5	34	30	23.9
Stock Clerks, Stockroom, Warehouse, or Storage Yard	62008	69	0.9	8	75	63	17.0
All Other Plants Clerical Workers	62900	27	0.4	NA	-	-	NA
SALES OCCUPATIONS	70000	68	0.9				
Sales Representatives, Sales Agents and/or Sales Associates	71000	55	0.7	18	65	45	21.6
All Other Sales Workers	79000	13	0.2	NA	-	-	NA

*Less than 0.05 percent

See page 184 for explanation of footnotes.

STAFFING PATTERNS

FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND TRANSPORTATION EQUIPMENT

(SIC 34)

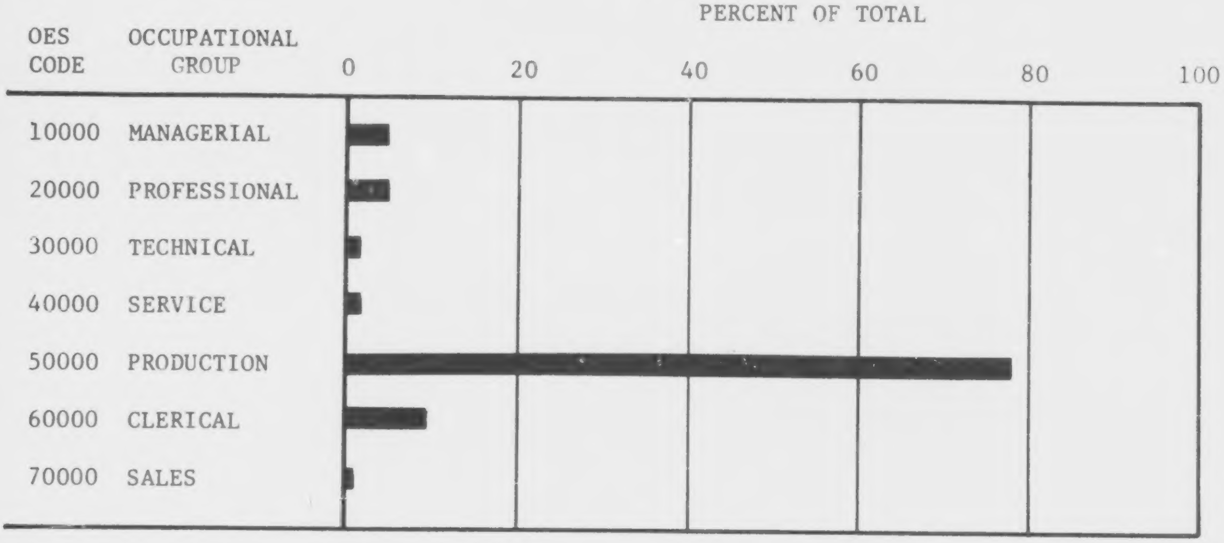
Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All or "All Other" category.

Automatic Spring Coiling
  Machine Operators
Bookkeeping and/or Billing
  Machine Operators
Carpenters
Chemists
Civil Engineers
Clerical Supervisors, Office
  or Plant
Computer Operators
Computer Programmers
Crane, Derrick and Hoist
  Oeprators
Delivery and/or Route
  Workers
Designers
Dip Planters, Non-Electrolytic
Electrical and Electronic
  Technicians
Etchers and/or Engravers
File Clerks
Food Service Workers
Furnace Operator Helpers
  or Heater Helpers
Guards and Doorkeepers
Heaters, Metal
Keypunch Operators
Loading Machine Operators
Machine Tool Operators,
  Numerical Control
Machine Tool Operators, Toolroom
Metal Engineers
Millwrights
Molders, Bench and/or Floor
Nurses, Professional
Oilers
Patternmakers, Metal
Personnel and Labor Relations
  Specialists
Personnel Clerks
Pourers, Metal
Receptionists
Refractory Materials Repairers
Riveters, Heavy
Riveters, Light
Roll Forming Machine
  Operators
Sales Clerks
Sawyers, Metal
Science Technicians
Shear and/or Slitter Setters
Stationary Boiler Firers
Structural Steel Workers
Switchboard Operators
Systems Analysts, Electronic
  Data Processing
Tool Programmers, Numerical
  Control

PERCENT DISTRIBUTION OF MAJOR OCCUPATIONAL GROUPS

FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND TRANSPORTATION EQUIPMENT

(SIC 34)



ANNUAL AVERAGE EMPLOYMENT (in thousands)*

1972-1980

FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND TRANSPORTATION EQUIPMENT

(SIC 34)

	NEW HAMPSHIRE		UNITED STATES	
YEAR	ANNUAL AVERAGE	PERCENT CHANGE	ANNUAL AVERAGE	PERCENT CHANGE
1972	4.4	-	1,546.7	-
1973	5.0	13.6	1,651.1	6.7
1974	4.8	- 4.0	1,638.5	- 0.8
1975	4.7	- 2.1	1,458.3	- 11.0
1976	5.7	21.3	1,510.9	3.6
1977	5.8	1.8	1,582.8	4.8
1978	6.6	13.8	1,672.6	5.7
1979	7.3	10.6	1,723.7	3.1
1980 **	7.5	2.7	1,627.1	- 5.6

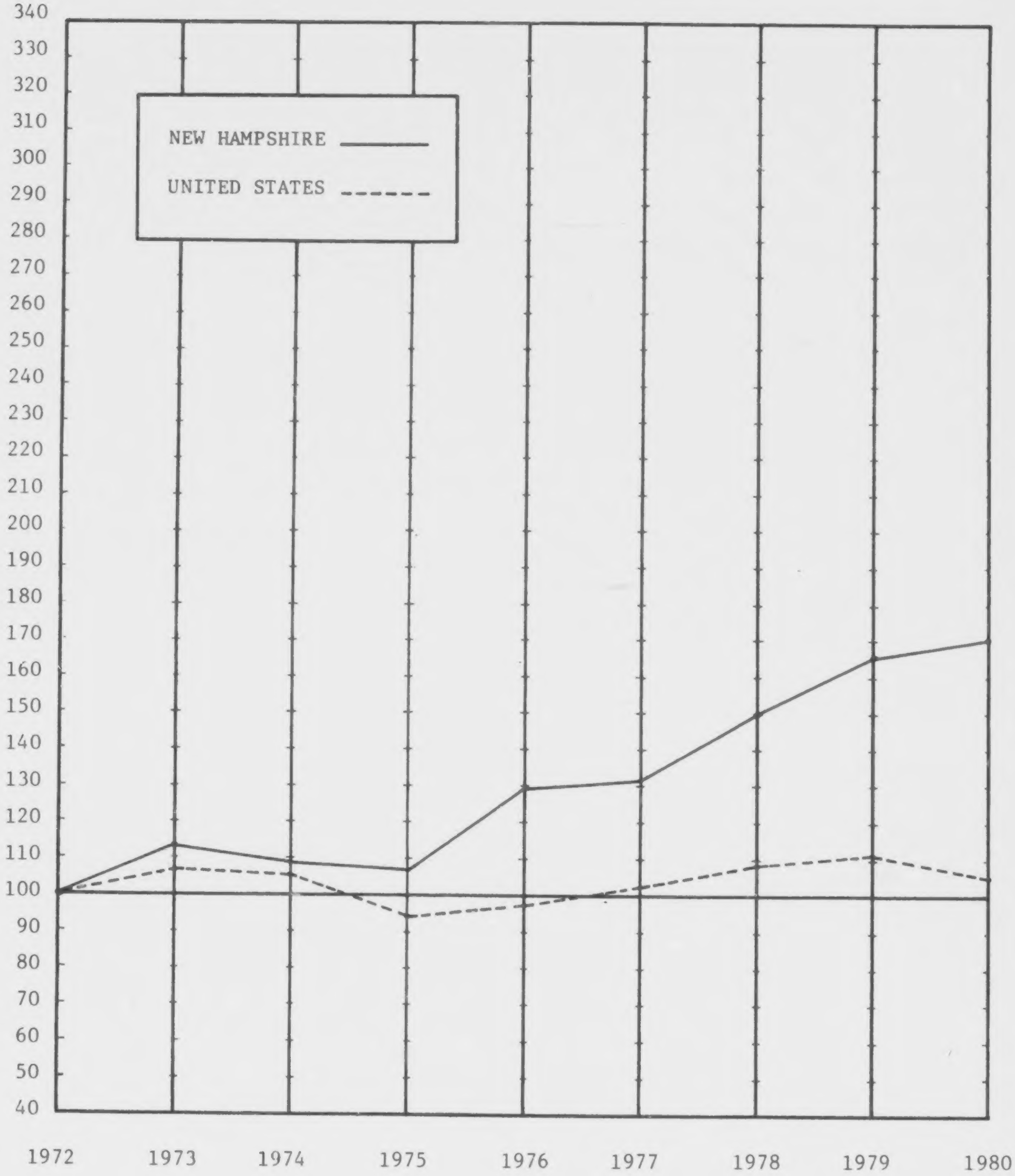
* Nonagricultural Employment

** Employment for 1980 based on preliminary data.

INDEXES OF EMPLOYMENT
NEW HAMPSHIRE AND THE UNITED STATES 1972 - 1980
1972 = 100

FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND TRANSPORTATION EQUIPMENT

(SIC 34)



OCCUPATIONAL EMPLOYMENT
DURABLE GOODS MANUFACTURING
MACHINERY, EXCEPT ELECTRICAL
(SIC 35)

This major group includes establishments primarily engaged in manufacturing machinery and equipment (except electrical and transportation), machines powered by built-in or detachable motors (except electrical household appliances), and portable tools, both electric and pneumatic powered (except hand tools).

During the survey month of June 1980, there were 23,442 wage and salary workers employed in the nonelectrical machinery industries. This represents a 49 percent increase (7,699 new jobs) over the three year period since the previous survey of June 1977 which is largely due to the significant influx into New Hampshire of new firms manufacturing office, computing, and accounting machines. The largest occupational group in this industry was in the production and production related activities with 52 percent of the workers, followed by the clerical group (over 15 percent) and the professional group (almost 14 percent). This reflects the relatively high level of research and development that is found in many large companies in these industries. The three most prominent single occupations, managers and officers with 1,838 employees, electrical and electronic assemblers with 1,718 workers, and electrical and electronic technicians with 1,200 workers combine to constitute over 20 percent of the total employment in this major industrial group.

THE TEN OCCUPATIONS EMPLOYING THE
LARGEST NUMBER OF WORKERS
LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	JUNE 1980 ESTIMATED EMPLOYMENT
1	10000	Managers and Officers	1,838
2	55U84	Electrical and Electronic Assemblers	1,718
3	32004	Electrical and Electronic Technicians	1,200
4	55B58	Inspectors	886
5	61368	Secretaries	855
6	55U81	Machine Assemblers	786
7	55B29	Supervisors, Nonworking	783
8	55J63	Grinding and/or Abrading Machine Operators, Metal	657
9	55L01	Machine Tool Operators, Combination	499
10	55K58	Lathe and/or Turning Machine Operators, Metal	487

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS
LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	10000	Managers and Officers	83.5
2	61368	Secretaries	46.0
3	55B29	Supervisors, Nonworking	45.3
	61333	General Clerks, Office	45.3
5	55L01	Machine Tool Operators, Combination	38.8

STAFFING PATTERNS

MACHINERY, EXCEPT ELECTRICAL

(SIC 35)

OCCUPATIONAL TITLE	OES CODE	JUNE 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
TOTAL ALL OCCUPATIONS		23,442	100.0				
MANAGERS AND OFFICERS	10000	1,838	7.8	12	2,059	1,617	83.5
PROFESSIONAL OCCUPATIONS	20000	3,228	13.8				
Chemical Engineers	21003	28	0.1	25	35	21	2.2
Civil Engineers							
Electrical and Electronic Engineers	21005	202	0.9	10	222	182	13.7
Industrial Engineers	21006	461	2.0	13	521	401	21.6
Mechanical Engineers	21008	383	1.6	8	414	352	25.2
All Other Engineers	21900	485	2.1	NA	-	-	NA
Systems Analysts, Business	24001	48	0.2	8	52	44	7.9
Purchasing Agents and/or Buyers	25300	139	0.6	6	147	138	21.6
Accountants and Auditors	25401	283	1.2	11	314	252	25.9
Commercial Artists	25426	44	0.2	27	56	32	6.5
Cost Estimators, Engineering	25427	25	0.1	10	28	22	8.6
Writers and/or Editors	25436	183	0.8	40	256	110	7.2
Nurses, Professional	25457	30	0.1	12	34	26	7.2
Personnel and Labor Relations Specialists	25465	117	0.5	10	129	105	15.1
Designers	25489	65	0.3	14	74	56	7.2
Contract Administrators	25551	32	0.1	27	41	23	6.5
All Other Professional Workers	29000	692	3.0	NA	-	-	NA
TECHNICAL OCCUPATIONS	30000	1,977	8.5				
Computer Programmers, Business	31001	122	0.5	15	140	104	10.1
Computer Programmers, Scientific and Technical	31002	19	0.1	24	24	14	4.3
Drafters	32003	292	1.3	12	327	257	24.5

See page 184 for explanation of footnotes.

STAFFING PATTERNS

MACHINERY, EXCEPT ELECTRICAL

(SIC 35)

OCCUPATIONAL TITLE	OES CODE	JUNE 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
Electrical and Electronic Technicians	32004	1,200	5.1	19	1,428	972	15.8
Mechanical Engineering Technicians	32010	45	0.2	17	53	37	9.4
Tool Programmers, Numerical Control	32011	65	0.3	10	72	58	10.1
Industrial Engineering Technicians	32019	23	0.1	17	27	19	5.8
All Other Engineering Technicians	32900	126	0.5	NA	-	-	NA
Science Technicians	33000	12	0.1	37	16	8	1.4
All Other Technicians	39000	73	0.3	NA	-	-	NA
SERVICE OCCUPATIONS	40000	306	1.3				
Janitors, Porters, and Cleaners	41000	173	0.8	5	182	164	25.9
Guards and Doorkeepers	42000	94	0.4	15	108	80	7.9
Supervisors, Nonworking--Service Only	44014	10	*	28	13	7	4.3
All Other Service Workers	49000	29	0.1	NA	-	-	NA
PRODUCTION OCCUPATIONS	50000	12,195	52.0				
Mechanics, Maintenance	51043	146	0.6	14	166	126	12.2
Refrigeration Mechanics and/or Air Conditioning Mechanics	51052	24	0.1	19	29	19	3.6
Data Processing Machine Repairers	51079	30	0.1	43	43	17	1.4
All Other Mechanics and Repairers	51900	16	0.1	NA	-	-	NA
Truck Drivers	54000	21	0.1	14	24	18	8.6
Carpenters	55A47	24	0.1	15	28	20	6.5
Crane, Derrick and Hoist Operators	55A82	23	0.1	18	27	19	2.2
Delivery and/or Route Workers	55A87	14	0.1	30	18	10	4.3

See page 184 for explanation of footnotes.

STAFFING PATTERNS

MACHINERY, EXCEPT ELECTRICAL

(SIC 35)

OCCUPATIONAL TITLE	OES CODE	JUNE 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
Electricians	55B12	150	0.6	12	168	132	13.7
Filers, Grinders, Buffers, Chippers, Cleaners and/or Polishers	55B19	200	0.8	11	222	178	16.5
Supervisors, Nonworking	55B29	783	3.3	10	861	705	45.3
Gear Cutting, Gear Grinding and/or Gear Shaping Machine Operators	55B44	32	0.1	23	39	25	5.0
Industrial Truck Operators	55B57	101	0.4	14	115	87	7.9
Inspectors	55B58	886	3.8	10	975	797	29.5
Machinists	55B84	396	1.7	18	467	325	34.5
Maintenance Repairers, General Utility	55B86	106	0.5	14	121	91	10.8
Helpers, Trades	55B87	37	0.2	20	44	30	5.8
Millwrights	55B95	27	0.1	16	31	23	4.3
Plumbers and/or Pipefitters	55C30	46	0.2	17	54	38	5.0
Production Packagers, Hand or Machine	55C39	106	0.5	38	146	66	5.0
Sandblasters and/or Shotblasters	55C64	18	0.1	11	20	16	4.3
Sheet Metal Workers	55C81	76	0.3	16	88	64	7.9
Tool and Die Makers	55D23	260	1.1	9	283	237	33.8
Welders and/or Flamecutters	55D46	345	1.5	12	386	304	22.3
Drill-Press and/or Boring Machine Operators	55H95	310	1.3	9	338	282	21.6
Etchers and/or Engravers	55I35	44	0.2	36	60	28	3.6
Grinding and/or Abrading Machine Operators, Metal	55J63	657	2.8	28	341	473	25.2
Heat Treaters, Annealers, and/or Temperers	55J85	43	0.2	9	47	39	7.2
Lather and/or Turning Machine Operators, Metal	55K58	487	2.1	9	531	443	31.7
Lay-Out Markers, Metal	55K61	11	*	22	13	9	2.9

See page 184 for explanation of footnotes.

STAFFING PATTERNS

MACHINERY, EXCEPT ELECTRICAL

(SIC 35)

OCCUPATIONAL TITLE	OES CODE	JUNE 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Machine Tool Operators, Combination	55L01	499	2.1	14	569	429	38.8
Machine Tool Operators, Numerical Control	55L02	480	2.0	5	504	456	34.5
Machine Tool Operators, Toolroom	55L03	113	0.5	16	131	95	8.6
Machine Tool Setters, Metalworking	55L04	306	1.3	38	422	190	19.4
Milling and/or Planing Machine Operators	55L31	304	1.3	8	328	280	23.7
Molders, Machine	55L61	51	0.2	45	74	28	1.4
Patternmakers, Wood	55M10	21	0.1	45	30	12	2.9
Sawyers, Metal	55N64	29	0.1	12	32	26	5.8
Testers	55Q57	328	1.4	27	417	239	10.1
Wood working Machine Operators	55R43	200	0.8	48	296	104	2.9
Painters, Production	55R68	60	0.3	11	67	53	12.2
Punch-Press Operators, Metal	55R78	97	0.4	22	118	76	12.2
Power Brake and/or Bending Machine Operators, Metal	55S90	37	0.2	16	43	31	5.0
Machine Assemblers	55U81	786	3.4	10	865	707	20.9
Electro-Mechanical Equipment Assemblers	55U83	323	1.4	24	401	245	6.5
Electrical and Electronic Assemblers	55U84	1,718	7.3	20	2,062	1,374	9.4
All Other Assemblers	55U99	388	1.7	NA	-	-	NA
All Other Skilled Craft and Kindred Workers	59001	323	1.4	NA	-	-	NA
All Other Operatives and Semiskilled Workers	59002	512	2.2	NA	-	-	NA
All Other Laborers and Unskilled Workers	59003	201	0.8	NA	-	-	NA
CLERICAL OCCUPATIONS	60000	3,638	15.5				
Computer Operators	61105	91	0.4	8	98	84	12.2

See page 184 for explanation of footnotes.

STAFFING PATTERNS

MACHINERY, EXCEPT ELECTRICAL

(SIC 35)

OCCUPATIONAL TITLE	OES CODE	JUNE 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
Keypunch Operators	61107	96	0.4	16	111	81	10.1
Peripheral EDP Equipment Operators	61109	50	0.2	25	62	38	3.6
All Other Office Machine Operators	61199	76	0.3	NA	-	-	NA
Accounting Clerks	61301	154	0.6	4	160	148	17.3
Bookkeepers, Hand	61307	13	0.1	38	18	8	5.0
File Clerks	61330	49	0.2	24	61	37	7.9
General Clerks, Office	61333	343	1.5	7	367	319	45.3
Order Clerks	61350	133	0.6	22	162	104	10.1
Payroll and/or Timekeeping Clerks	61351	46	0.2	12	52	40	14.4
Personnel Clerks	61352	41	0.2	11	46	36	11.5
Procurement Clerks	61355	36	0.2	12	40	32	10.1
Receptionists	61361	12	0.1	22	15	9	4.3
Secretaries	61368	855	3.6	22	1,043	667	46.0
Statistical Clerks	61374	35	0.1	13	40	30	5.8
Switchboard Operators,	61376	18	0.1	16	21	15	5.8
Switchboard Operator/ Receptionists	61377	45	0.2	11	50	40	16.5
Typists	61392	78	0.3	16	90	66	10.1
Clerical Supervisors, Office or Plant	61396	55	0.2	13	62	48	8.6
All Other Office Clerical Workers	61900	263	1.1	NA	-	-	NA
Production Clerks and/or Coordinators	62003	436	1.8	18	514	358	29.5
Shipping Packers	62004	132	0.6	16	153	111	14.4
Shipping and/or Receiving Clerks	62005	122	0.5	7	131	113	23.7
Stock Clerks, Stockroom, Warehouse or Storage Yard	62008	393	1.7	8	424	362	27.3
All Other Plant Clerical Workers	62900	66	0.3	NA	-	-	NA
SALES OCCUPATIONS	70000	260	1.1				

See page 184 for explanation of footnotes.

STAFFING PATTERNS

MACHINERY, EXCEPT ELECTRICAL

(SIC 35)

OCCUPATIONAL TITLE	OES CODE	JUNE 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
Sales Representatives, Sales Agents, and/or Sales Associates	71000	258	1.1	14	294	222	24.5
All Other Sales Workers	79000	2	*	NA	-	-	NA

* Less than 0.05 percent.

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

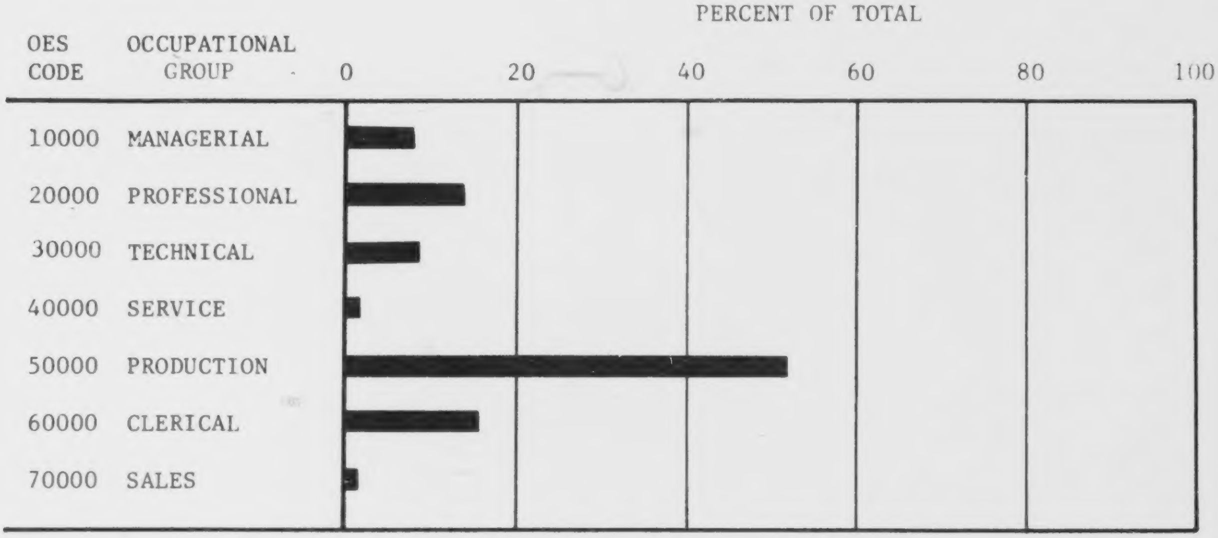
- Balancing Machine Operators
- Bookkeeping and/or Billing Machine Operators
- Chemists
- Coil Winders
- Compression and/or Injection Molding Machine Operators, Plastics
- Conveyor Operators or Tenders
- Coremakers, Hand, Bench and/or Floor
- Die Sinkers
- Electroplaters
- Food Service Workers
- Forging Press Operators
- Furnace Operators and/or Cupola Tenders
- Furnace Operator Helpers or Heater Helpers
- Instrument Repairers
- Mechanics, Automotive
- Metal Engineers
- Molders, Bench and/or Floor
- Oilers
- Order Clerks
- Painters, Maintenance
- Pourers, Metal
- Power Screwdriver Operators
- Punch-Press Setters, Metal
- Refractory Materials Repairers
- Riggers
- Riveters, Light
- Sales Clerks
- Sand Cutters, Mixers, and/or Slingers
- Shakeout Workers, Foundry
- Shear and/or Slitter Operators, Metal
- Shear and/or Slitter Setters
- Stationary Engineers
- Stenographers
- Systems Analysts, Scientific and Technical

See page 184 for explanation of footnotes.

PERCENT DISTRIBUTION OF MAJOR OCCUPATIONAL GROUPS

MACHINERY, EXCEPT ELECTRICAL

(SIC 35)



ANNUAL AVERAGE EMPLOYMENT (in thousands)*

1972-1980

MACHINERY, EXCEPT ELECTRICAL

(SIC 35)

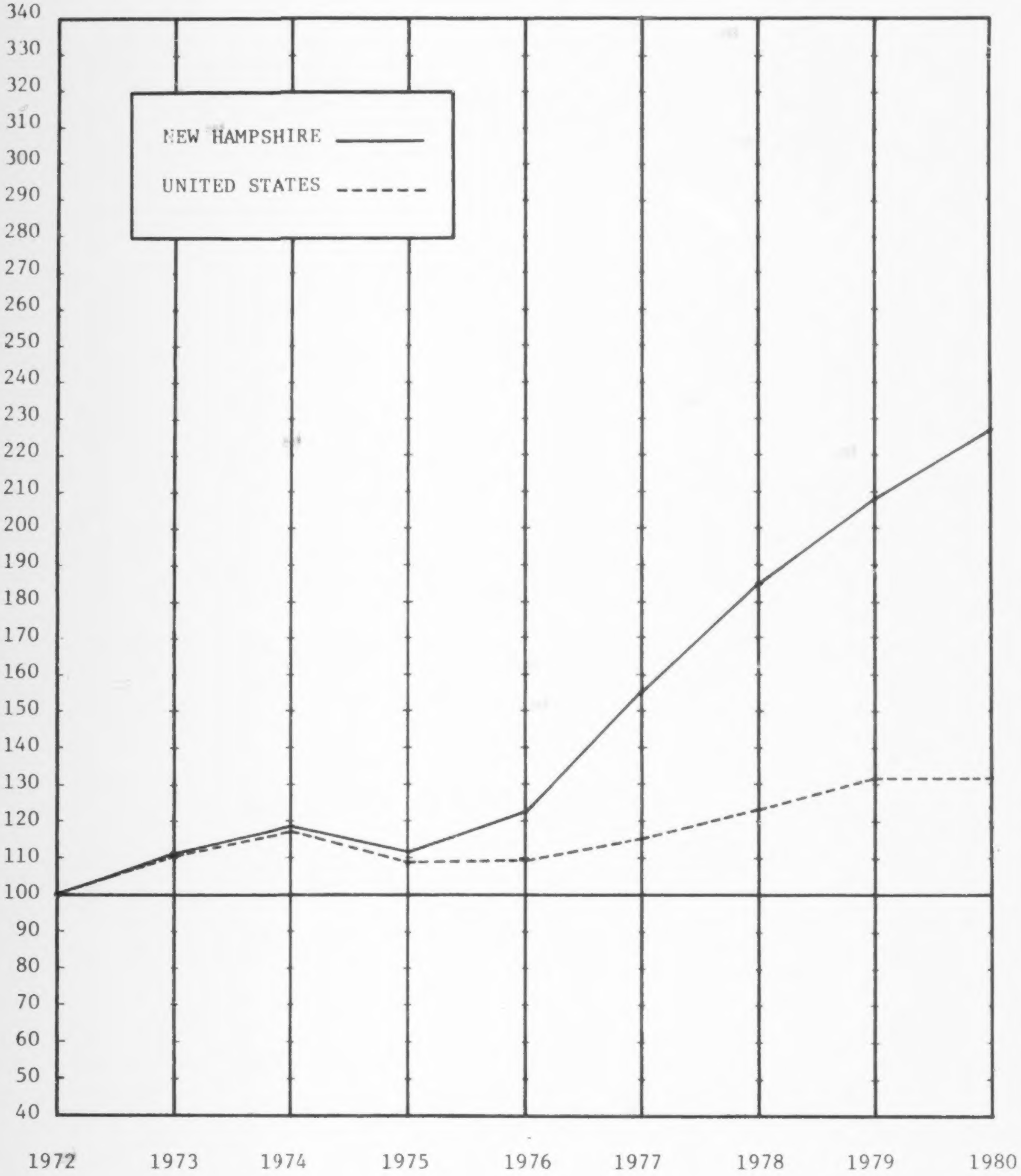
	NEW HAMPSHIRE		UNITED STATES	
YEAR	ANNUAL AVERAGE	PERCENT CHANGE	ANNUAL AVERAGE	PERCENT CHANGE
1972	10.2	-	1,889.0	-
1973	11.3	10.8	2,089.0	10.6
1974	12.1	7.1	2,208.1	5.7
1975	11.4	- 5.8	2,056.8	- 6.9
1976	12.5	9.6	2,065.2	0.4
1977	15.9	27.2	2,174.7	5.3
1978	18.9	18.9	2,325.5	6.9
1979	21.2	12.2	2,481.6	6.7
1980 **	23.1	9.0	2,488.8	0.3

* Nonagricultural Employment

** Employment for 1980 based on preliminary data.

INDEXES OF EMPLOYMENT
NEW HAMPSHIRE AND THE UNITED STATES 1972 - 1980
1972 = 100

MACHINERY, EXCEPT ELECTRICAL
(SIC 35)



OCCUPATIONAL EMPLOYMENT
DURABLE GOODS MANUFACTURING
ELECTRICAL AND ELECTRONIC
MACHINERY, EQUIPMENT, AND SUPPLIES
(SIC 36)

This major group includes establishments engaged in manufacturing machinery, apparatus and supplies for the generation, storage, transmission, transformation, and utilization of electrical energy. The manufacture of household appliances is also included in this group.

Manufacturers of these goods employed 19,772 wage and salary workers during the survey of June 1980. This was an increase of over 5,000 for a gain of 34 percent from the 1977 survey. Sizeable growth occurred in production occupations where 3,211 additional workers joined the rolls. Although ranked fourth in 1980 distribution, managers and officers nearly doubled in numbers with a gain of 678 or 95 percent.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	JUNE 1980 ESTIMATED EMPLOYMENT
1	55U84	Electrical and Electronic Assemblers	4,085
2	10000	Managers and Officers	1,393
3	55R82	Coil Winders	675
4	21005	Electrical and Electronic Engineers	670
5	55B58	Inspectors	667
6	32004	Electrical and Electronic Technicians	644
7	55B29	Supervisors, Nonworking	466
8	61368	Secretaries	439
9	55R86	Coil Finishers	320
10	62003	Production Clerks and/or Coordinators	242

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	10000	Managers and Officers	94.6
2	25300	Purchasing Agents and/or Buyers	62.2
3	61368	Secretaries	56.8
4	25401	Accountants and Auditors	54.1
	32004	Electrical and Electronic Technicians	54.1

STAFFING PATTERNS

ELECTRICAL AND ELECTRONIC MACHINERY, EQUIPMENT AND SUPPLIES

(SIC 36)

OCCUPATIONAL TITLE	OES CODE	JUNE 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
TOTAL ALL OCCUPATIONS		19,772	100.0				
MANAGERS AND OFFICERS	10000	1,393	7.1	3	1,435	1,351	94.6
PROFESSIONAL OCCUPATIONS	20000	2,418	12.2				
Chemical Engineers	21003	22	0.1	20	26	18	10.8
Electrical and Electronic Engineers	21005	670	3.4	5	704	636	45.9
Industrial Engineers	21006	153	0.8	16	177	129	33.8
Mechanical Engineers	21008	106	0.5	10	117	95	31.1
All Other Engineers	21900	163	0.8	NA	-	-	NA
Mathematicians	22103	11	0.1	0	11	11	1.4
Chemists	22201	14	0.1	23	17	11	12.2
Physicists	22205	25	0.1	0	25	25	1.4
Systems Analysts, Business	24001	46	0.2	7	49	43	9.5
Purchasing Agents and/or Buyers	25300	160	0.8	6	170	150	62.2
Accountants and Auditors	25401	167	0.8	4	174	160	54.1
Commercial Artists	25426	23	0.1	11	26	20	6.8
Cost Estimators, Engineering	25427	39	0.2	15	45	33	18.9
Writers and/or Editors	25436	52	0.3	4	54	50	9.5
Lawyers	25446	14	0.1	22	17	11	5.4
Personnel and Labor Relations Specialists	25465	87	0.4	4	90	84	41.2
Designers	25489	22	0.1	14	25	19	14.9
Contract Administrators	25551	150	0.8	2	153	147	17.6
All Other Professional Workers	29000	494	2.5	NA	-	-	NA
TECHNICAL OCCUPATIONS	30000	1,330	6.7				
Computer Programmers, Business	31001	32	0.2	12	36	28	17.6
Drafters	32003	143	0.7	10	157	129	39.2
Electrical and Electronic Technicians	32004	644	3.2	9	702	586	54.1

See page 184 for explanation of footnotes.

STAFFING PATTERNS

ELECTRICAL AND ELECTRONIC

MACHINERY, EQUIPMENT AND SUPPLIES

(SIC 36)

OCCUPATIONAL TITLE	OES CODE	JUNE 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Mechanical Engineering Technicians	32010	80	0.4	5	84	76	10.8
Tool Programmers, Numerical Control	32011	22	0.1	26	28	16	10.8
Industrial Engineering Technicians	32019	23	0.1	15	26	20	17.6
All Other Engineering Technicians	32900	57	0.3	NA	-	-	NA
Science Technicians	33000	76	0.4	6	81	71	8.1
All Other Technicians	39000	253	1.3	NA	-	-	NA
SERVICE OCCUPATIONS	40000	314	1.6				
Janitors, Porters, and Cleaners	41000	181	0.9	8	195	167	51.4
Guards and Doorkeepers	42000	84	0.4	14	96	72	10.8
Supervisors, Nonworking--Service Only	44014	48	0.3	28	61	35	9.5
All Other Service Workers	49000	1	*	NA	-	-	NA
PRODUCTION OCCUPATIONS	50000	11,727	59.3				
Electric Motor Rapairers	51020	10	0.1	7	11	9	1.4
Electrical Instrument Repairers	51023	14	0.1	21	17	11	8.1
Mechanics, Maintenance	51043	176	0.9	17	206	146	25.7
All Other Mechanics and Repairers	51900	20	0.1	NA	-	-	NA
Truck Drivers	54000	16	0.1	20	19	13	16.2
Carpenters	55A47	27	0.1	14	31	23	17.6
Electricians	55B12	56	0.3	12	63	49	28.4
Filers, Grinders, Buffers, Chippers, Cleaners and/or Polishers	55B19	17	0.1	46	25	9	8.1
Supervisors, Nonworking	55B29	466	2.3	9	508	424	52.7
Industrial Truck Operators	55B57	52	0.3	13	59	45	12.2
Inspectors	55B58	667	3.3	9	727	607	45.9

See page 184 for explanation of footnotes.

STAFFING PATTERNS

ELECTRICAL AND ELECTRONIC

MACHINERY, EQUIPMENT AND SUPPLIES

(SIC 36)

OCCUPATIONAL TITLE	OES CODE	JUNE 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Machinists	55B84	153	0.8	21	185	121	31.1
Maintenance Repairers, General Utility	55B86	90	0.4	16	104	76	36.5
Helpers, Trades	55B87	48	0.2	15	55	41	12.2
Millwrights	55B95	41	0.2	10	45	37	6.8
Order Fillers	55C08	108	0.5	20	130	86	8.1
Electroplaters	55C29	124	0.6	34	166	82	20.3
Production Packagers, Hand or Machine	55C39	124	0.6	11	138	110	16.2
Sheet Metal Workers	55C81	25	0.1	12	28	22	8.1
Tool and Die Makers	55D23	108	0.5	24	134	82	24.3
Welders and/or Flame-cutters	55D46	30	0.2	11	33	27	13.5
Drill-Press and/or Boring Machine Operators	55H95	179	0.9	21	217	141	20.3
Etchers and/or Engravers	55I35	33	0.2	31	43	23	10.8
Lathe and/or Turning Machine Operators, Metal	55K58	138	0.7	32	182	94	18.9
Lay-Out Markers, Metal	55K61	12	0.1	5	13	11	4.1
Machine Tool Operators, Combination	55L01	51	0.3	15	59	43	13.5
Machine Tool Operators, Numerical Control	55L02	73	0.4	24	91	55	12.2
Machine Tool Operators, Toolroom	55L03	23	0.1	47	34	12	6.8
Machine Tool Setters, Metalworking	55L04	57	0.3	11	63	51	10.8
Milling and/or Planing Machine Operators	55L31	50	0.3	34	67	33	13.5
Molders, Machine	55L61	18	0.1	21	22	14	1.4
Plater Helpers	55M32	122	0.6	18	144	100	10.8
Power Screwdriver Operators	55M52	39	0.2	4	41	37	4.1
Sawyer, Metal	55N64	10	0.1	34	13	7	6.8
Testers	55Q57	218	1.1	7	233	203	28.4
Painters, Production	55R68	43	0.2	16	50	36	20.3
Wirers, Electronic	55R74	74	0.4	32	98	50	10.8

See page 184 for explanation of footnotes.

STAFFING PATTERNS

ELECTRICAL AND ELECTRONIC MACHINERY, EQUIPMENT AND SUPPLIES

(SIC 36)

OCCUPATIONAL TITLE	OES CODE	JUNE 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Impregnators, Electronic	55R75	17	0.1	6	18	16	8.1
Riveters, Light	55R77	12	0.1	13	14	10	4.1
Punch-Press Operators, Metal	55R78	116	0.6	22	142	90	13.5
Punch-Press Setters, Metal	55R79	41	0.2	12	46	36	12.2
Coil Winders	55R82	675	3.4	8	729	621	28.4
Coil Tapers, Hand or Machine	55R83	57	0.3	26	72	42	6.8
Encapsulators	55R84	120	0.6	22	146	94	13.5
Compression and/or Injection Molding Machine Operators, Plastics	55R85	113	0.6	18	133	93	13.5
Coil Finishers	55R86	320	1.6	14	365	275	14.9
Conveyor Operators or Tenders	55R90	22	0.1	19	26	18	1.4
Dip Platers, Non-Electrolitic	55S15	17	0.1	22	21	13	6.8
Screen or Stencil Printers and/or Setters	55T70	67	0.3	26	84	50	13.5
Machine Assemblers	55U81	42	0.2	9	46	38	5.4
Electro-Mechanical Equipment Assemblers	55U83	118	0.6	14	135	101	12.2
Electrical and Electronic Assemblers	55U84	4,085	20.6	12	4,575	3,595	45.9
All Other Assemblers	55U99	193	1.0	NA	-	-	NA
Mixers and/or Blenders, Chemicals and Chemical Products	57031	16	0.1	32	21	11	6.8
All Other Skilled Craft and Kindred Workers	59001	85	0.4	NA	-	-	NA
All Other Operatives and Semiskilled Workers	59002	1,128	5.7	NA	-	-	NA
All Other Laborers and Unskilled Workers	59003	971	4.9	NA	-	-	NA
CLERICAL OCCUPATIONS	60000	2,431	12.3				
Computer Operators	61105	44	0.2	10	48	40	27.0

See page 184 for explanation of footnotes.

STAFFING PATTERNS

ELECTRICAL AND ELECTRONIC

MACHINERY, EQUIPMENT AND SUPPLIES

(SIC 36)

OCCUPATIONAL TITLE	OES CODE	JUNE 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Keypunch Operators	61107	64	0.3	11	71	57	18.9
All Other Office Machine Operators	61199	42	0.2	NA	-	-	NA
Accounting Clerks	61301	206	1.0	4	214	198	50.0
Bookkeepers, Hand	61307	47	0.3	21	57	37	27.0
File Clerks	61330	97	0.5	9	106	88	17.6
General Clerks, Office	61333	86	0.4	13	97	75	33.8
Order Clerks	61350	36	0.2	20	43	29	17.6
Payroll and/or Timekeeping Clerks	61351	45	0.2	8	49	41	37.8
Personnel Clerks	61352	32	0.2	15	37	27	24.3
Procurement Clerks	61355	19	0.1	21	23	15	16.2
Receptionists	61361	22	0.1	21	27	17	16.2
Secretaries	61368	439	22	4	457	421	56.8
Switchboard Operators	61376	16	0.1	14	18	14	9.5
Switchboard Operator/ Receptionists	61377	41	0.2	11	46	36	40.5
Typists	61392	165	0.8	17	193	137	29.7
Clerical Supervisors, Office or Plant	61396	30	0.2	22	37	23	16.2
All Other Office Clerical Workers	61900	272	1.4	NA	-	-	NA
Production Clerks and/or Coordinators	62003	242	1.2	7	259	225	51.4
Shipping Packers	62004	145	0.8	21	175	115	41.9
Shipping and/or Receiving Clerks	62005	104	0.5	14	119	89	52.7
Stock Clerks, Stockroom, Warehouse or Storage Yard	62008	217	1.1	10	239	195	52.7
All Other Plant Clerical Workers	62900	20	0.1	NA	-	-	NA
SALES OCCUPATIONS	70000	159	0.8				
Sales Representatives, Sales Agents and/or Sales Associates	71000	151	0.8	11	168	134	41.9
All Other Sales Workers	79000	8	*	NA	-	-	NA

* Less than 0.05 percent

See page 184 for explanation of footnotes.

STAFFING PATTERNS

ELECTRICAL AND ELECTRONIC MACHINERY, EQUIPMENT AND SUPPLIES

(SIC 36)

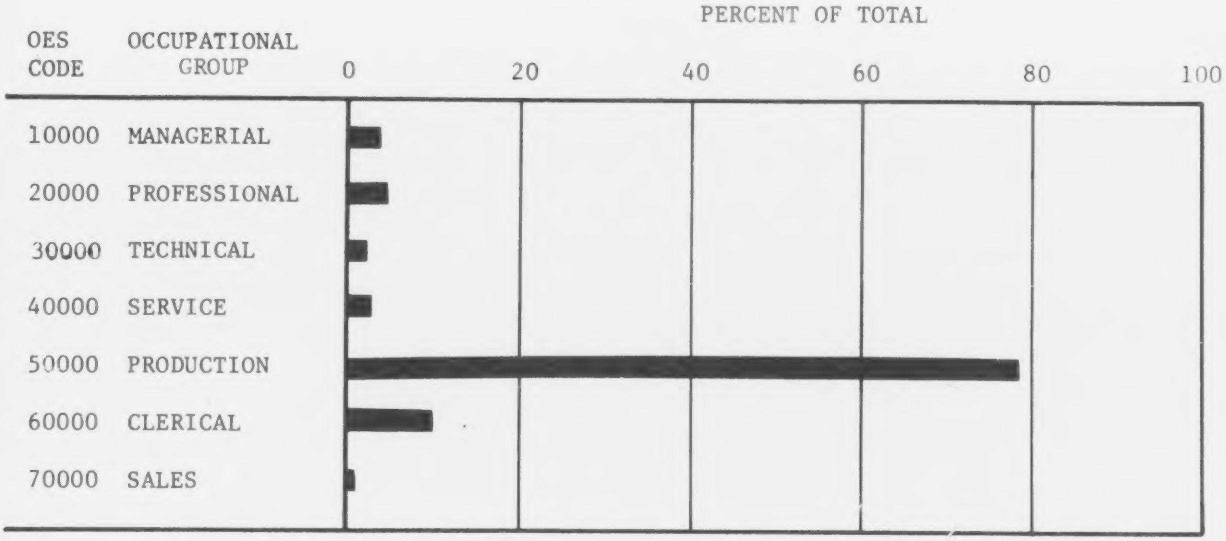
Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

Balancing Machine Operators
Bookkeeping and/or Billing Machine Operators
Computer Programmers, Scientific and Technical
Delivery and/or Route Workers
Die-Casting Machine Operators, Metal and/or Die-Casting Setters
Forging Press Operators
Furnace Operators and/or Cupola Tenders
Furnace Operator Helpers or Heater Helpers
Gear Cutting Gear Grinding and/or Gear Shaping Machine Operators
Grinding and/or Abrading Machine Operators, Metal
Heat Treaters, Annealers, and/or Temperers
Instrument Makers and/or Assemblers
Metal Engineers
Molders, Bench and/or Floor
Nurses, Professional
Oilers
Painters, Maintenance
Peripheral EDP Equipment Operators
Plumbers and/or Pipefitters
Pourers, Metal
Power Brake and/or Bending Machine Operators, Metal
Sales Clerks
Shear and/or Slitter Operators, Metal
Shear and/or Slitter Setters
Stationary Boiler Firers
Statistical Clerks
Statisticians
Stenographers

PERCENT DISTRIBUTION OF MAJOR OCCUPATIONAL GROUPS

ELECTRICAL AND ELECTRONIC MACHINERY, EQUIPMENT AND SUPPLIES

(SIC 36)



ANNUAL AVERAGE EMPLOYMENT (in thousands)*

1972-1980

ELECTRICAL AND ELECTRONIC MACHINERY, EQUIPMENT AND SUPPLIES

(SIC 36)

	NEW HAMPSHIRE		UNITED STATES	
YEAR	ANNUAL AVERAGE	PERCENT CHANGE	ANNUAL AVERAGE	PERCENT CHANGE
1972	13.2	-	1,813.4	-
1973	14.9	12.9	1 969.5	8.6
1974	14.8	- 0.7	1,967.9	- 0.1
1975	13.0	- 12.2	1,701.6	- 13.5
1976	15.2	16.9	1,774.3	4.3
1977	15.5	2.0	1,878.0	5.8
1978	16.6	7.1	2,006.1	6.8
1979	18.6	12.0	2,124.3	5.9
1980 **	19.7	5.9	2,126.3	0.1

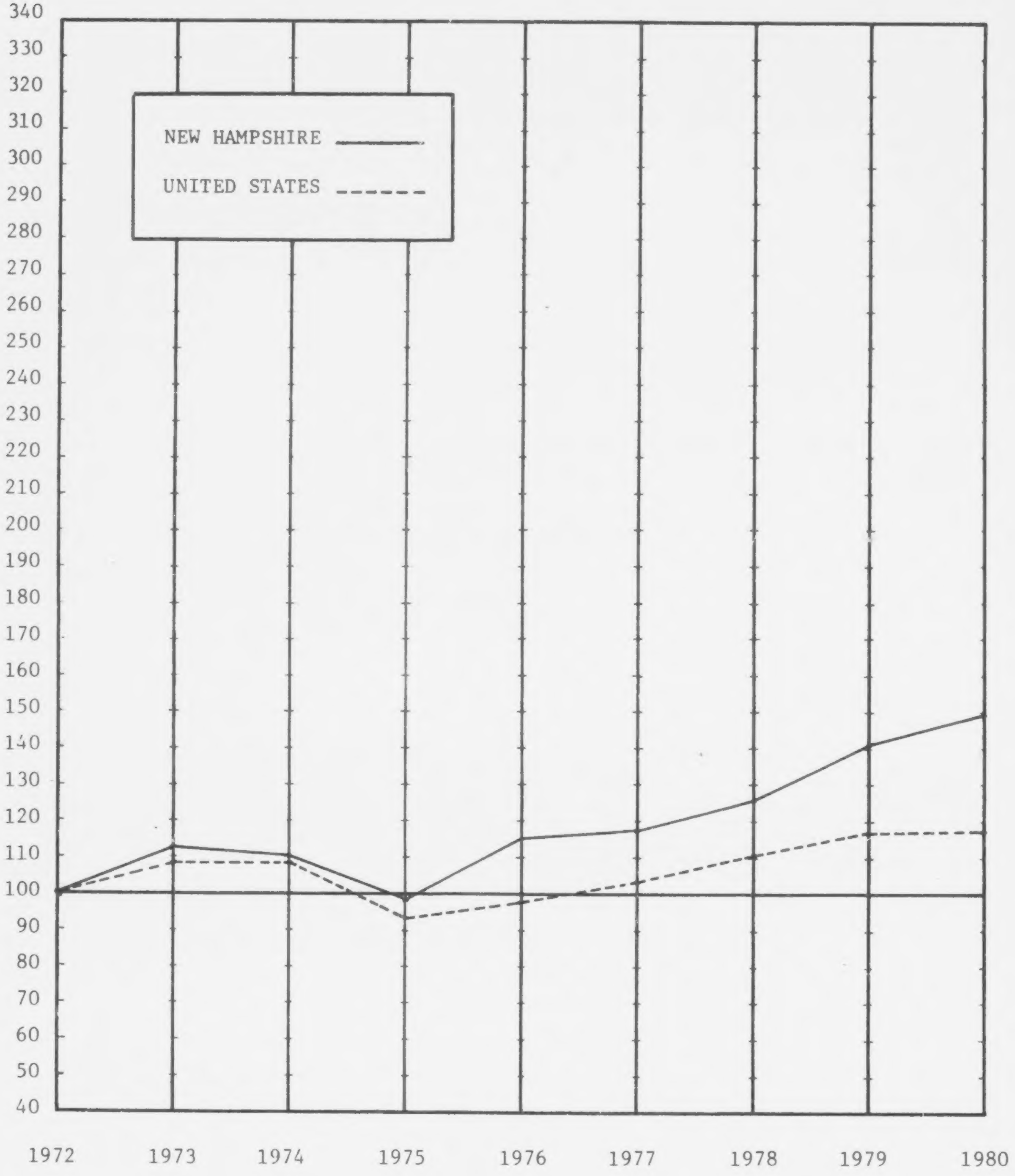
* Nonagricultural Employment

** Employment for 1980 based on preliminary data.

# INDEXES OF EMPLOYMENT
# NEW HAMPSHIRE AND THE UNITED STATES 1972 - 1980
1972 = 100

ELECTRICAL AND ELECTRONIC MACHINERY, EQUIPMENT AND SUPPLIES

(SIC 36)



OCCUPATIONAL EMPLOYMENT
DURABLE GOODS MANUFACTURING
INSTRUMENTS AND RELATED PRODUCTS
(SIC 38)

This major group includes establishments engaged in manufacturing instruments (including professional and scientific) for measuring, testing, analyzing, and controlling, and their associated sensors and accessories; optical instruments and lenses; surveying and drafting instruments; surgical, medical, and dental instruments, equipment, and supplies; ophthalmic goods; photographic equipment and supplies; and watches and clocks.

During the survey month of April 1980 there were 7,668 wage and salary workers employed in the instruments and related products industries, a gain of 1,582 workers (or 30 percent) from a similar survey conducted three years ago. The largest occupational group, production and production related workers, provided 5,153 jobs or more than 67 percent of the total employment in these industries. The three leading single occupations, electrical and electronic assemblers with 900 workers, electro-mechanical equipment assemblers with 447 workers, and managers and officers with 415 employees combined to make up 23 percent of the total work force in this major industrial sector.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	APRIL 1980 ESTIMATED EMPLOYMENT
1	55U84	Electrical and Electronic Assemblers	900
2	55U83	Electro-Mechanical Equipment Assemblers	447
3	10000	Managers and Officers	415
4	21005	Electrical and Electronic Engineers	208
5	55U82	Instrument Makers and/or Assemblers	192
6	55B29	Supervisors, Nonworking	179
7	55B58	Inspectors	178
8	32004	Electrical and Electronic Technicians	145
9	55Q57	Testers	137
10	55C39	Production Packagers, Hand or Machine	121

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	10000	Managers and Officers	95.2
2	25300	Purchasing Agents and/or Buyers	52.4
3	32003	Drafters	50.0
	62005	Shipping and/or Receiving Clerks	50.0
5	32004	Electrical and Electronic Technicians	47.6

STAFFING PATTERNS

INSTRUMENTS AND RELATED PRODUCTS

(SIC 38)

OCCUPATIONAL TITLE	OES CODE	APRIL 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
TOTAL ALL OCCUPATIONS		7,668	100.0				
MANAGERS AND OFFICERS	10000	415	5.4	1	411	411	95.2
PROFESSIONAL OCCUPATIONS	20000	588	7.6				
Electrical and Electronic Engineers	21005	208	2.7	2	212	204	38.1
Industrial Engineers	21006	49	0.6	1	49	49	26.2
Mechanical Engineers	21008	46	0.6	4	48	44	26.2
All Other Engineers	21900	30	0.4	NA	-	-	NA
Systems Analysts, Electronic Data Processing	24000	26	0.3	1	26	26	9.5
Purchasing Agents and/or Buyers	25300	58	0.7	2	59	57	52.4
Accountants and Auditors	25401	87	1.1	1	88	86	26.2
Cost Estimators, Engineering	25427	17	0.2	3	18	16	14.3
Personnel and Labor Relations Specialists	25465	29	0.4	2	30	28	26.2
Designers	25489	19	0.3	0	19	19	4.8
All Other Professional Workers	29000	19	0.3	NA	-	-	NA
TECHNICAL OCCUPATIONS	30000	449	5.9				
Computer Programmers	31000	14	0.2	3	14	14	14.3
Drafters	32003	67	0.8	5	70	64	50.0
Electrical and Electronic Technicians	32004	145	1.9	3	149	141	47.6
Mechanical Engineering Technicians	32010	68	0.9	4	71	65	19.0
Industrial Engineering Technicians	32019	12	0.2	3	12	12	11.9
All Other Engineering Technicians	32900	125	1.6	NA	-	-	NA
All Science Technicians	33000	6	0.1	NA	-	-	NA
All Other Technicians	39000	12	0.2	NA	-	-	NA

See page 184 for explanation of footnotes.

STAFFING PATTERNS

INSTRUMENTS AND RELATED PRODUCTS

(SIC 38)

OCCUPATIONAL TITLE	OES CODE	APRIL 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
SERVICE OCCUPATIONS	40000	91	1.2				
Janitors, Porters, and Cleaners	41000	72	0.9	2	73	71	42.9
All Other Service Workers	49000	19	0.3	NA	-	-	NA
PRODUCTION OCCUPATIONS	50000	5,153	67.2				
Mechanics, Maintenance	51043	35	0.5	3	36	34	16.7
All Other Mechanics and Repairers	51900	4	0.1	NA	-	-	NA
Electricians	55B12	32	0.4	1	32	32	19.0
Supervisors, Nonworking	55B29	179	2.3	1	181	177	40.5
Industrial Truck Operators	55B57	15	0.2	0	15	15	2.4
Inspectors	55B58	178	2.3	3	183	173	45.2
Lens Grinders	55B70	85	1.1	7	91	79	11.9
Machinists	55B84	86	1.1	4	89	83	40.5
Maintenance Repairers, General Utility	55B86	48	0.6	7	51	45	31.0
Order Fillers	55C08	23	0.3	2	23	23	4.8
Production Packagers, Hand or Machine	55C39	121	1.6	1	122	120	19.0
Sewing Machine Operators, Regular Equipment -- Nongarment	55C78	104	1.4	3	107	101	4.8
Sheet Metal Workers	55C81	18	0.2	15	21	15	9.5
Tool and Die Makers	55D23	88	1.2	1	89	87	26.2
Welders and/or Flame-cutters	55D46	12	0.2	6	13	11	11.9
Opticians, Dispensing and/or Optical Mechanics	55069	50	0.7	0	50	50	7.1
Drill-Press and/or Boring Machine Operators	55H95	94	1.2	4	98	90	21.4
Grinding and/or Abrading Machine Operators, Metal	55J63	78	1.0	14	89	67	19.0

See page 184 for explanation of footnotes.

STAFFING PATTERNS

INSTRUMENTS AND RELATED PRODUCTS

(SIC 38)

OCCUPATIONAL TITLE	OES CODE	APRIL 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
Lathe and/or Turning Machine Operators, Metal	55K58	81	1.1	1	82	80	16.7
Machine Tool Operators, Combination	55L01	56	0.7	14	64	48	23.8
Machine Tool Operators, Toolroom	55L03	28	0.4	3	29	27	9.5
Machine Tool Setters, Metalworking	55L04	72	0.9	3	74	70	19.0
Milling and/or Planing Machine Operators	55L31	28	0.4	2	29	27	16.7
Sawyers, Metal	55N64	10	0.1	0	10	10	4.8
Testers	55Q57	137	1.8	2	140	134	31.0
Painters, Production	55R68	64	0.8	17	75	53	23.8
Die-Casting Machine Operators, Metal and/or Die-Casting Setters	55R73	14	0.2	0	14	14	2.4
Wirers, Electronic	55R74	99	1.3	12	111	87	16.7
Punch-Press Operators, Metal	55R78	88	1.2	2	90	86	21.4
Punch-Press Setters, Metal	55R79	14	0.2	6	15	13	11.9
Compression and/or Injection Molding Machine Operators, Plastics	55R85	42	0.5	3	43	41	7.1
Power Brake and/or Bending Machine Operators, Metal	55S90	11	0.1	5	12	10	4.8
Clock, Watch, and Chronometer Assemblers	55U47	95	1.2	13	107	83	7.1
Instrument Makers and/or Assemblers	55U82	192	2.5	10	211	173	14.3
Electro-Mechanical Equipment Assemblers	55U83	447	5.8	6	474	420	21.4
Electrical and Electronic Assemblers	55U84	900	11.7	6	954	846	33.3
All Other Assemblers	55U99	409	5.3	NA	-	-	NA
Mixers and/or Blenders, Chemicals and Chemical Products	57031	12	0.2	0	12	12	2.4

See page 184 for explanation of footnotes.

STAFFING PATTERNS

INSTRUMENTS AND RELATED PRODUCTS

(SIC 38)

OCCUPATIONAL TITLE	OES CODE	APRIL 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
All Other Skilled Craft and Kindred Workers	59001	93	1.2	NA	-	-	NA
All Other Operatives and Semiskilled Workers	59002	867	11.3	NA	-	-	NA
All Other Laborers and Unskilled Workers	59003	144	1.9	NA	-	-	NA
CLERICAL OCCUPATIONS	60000	874	11.4				
Computer Operators	61105	18	0.2	3	19	17	16.7
Keypunch Operators	61107	28	0.4	2	29	27	16.7
All Other Office Machine Operators	61199	6	0.1	NA	-	-	NA
Stenographers	61200	21	0.3	3	22	20	11.9
Accounting Clerks	61301	55	0.7	2	56	54	40.5
Bookkeepers, Hand	61307	20	0.3	7	20	20	38.1
General Clerks, Office	61333	41	0.5	3	42	40	26.2
Order Clerks	61350	14	0.2	5	15	13	23.8
Payroll and/or Timekeeping Clerks	61351	18	0.2	2	18	18	28.6
Personnel Clerks	61352	14	0.2	3	14	14	23.8
Procurement Clerks	61355	110	1.5	1	111	109	31.0
Secretaries	61368	100	1.3	2	102	98	42.9
Switchboard Operator/ Receptionists	61377	17	0.2	4	18	16	35.7
Typists	61392	49	0.6	4	51	47	35.7
Clerical Supervisors, Office or Plant	61396	42	0.6	1	42	42	11.9
All Other Office Clerical Workers	61900	25	0.3	NA	-	-	NA
Production Clerks and/or Coordinators	62003	64	0.8	2	65	63	45.2
Shipping Packers	62004	70	0.9	2	71	69	40.5
Shipping and/or Receiving Clerks	62005	41	0.5	3	42	40	50.0
Stock Clerks, Stockroom, Warehouse or Storage Yard	62008	94	1.2	2	96	92	42.9
All Other Plant Clerical Workers	62900	27	0.4	NA	-	-	NA

See page 184 for explanation of footnotes.

STAFFING PATTERNS

INSTRUMENTS AND RELATED PRODUCTS

(SIC 38)

OCCUPATIONAL TITLE	OES CODE	APRIL 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
SALES OCCUPATIONS	70000	98	1.3				
Sales Representatives, Sales Agents and/or Sales Associates	71000	78	1.0	2	80	76	45.2
Sales Clerks	72002	20	0.3	8	22	18	19.0

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

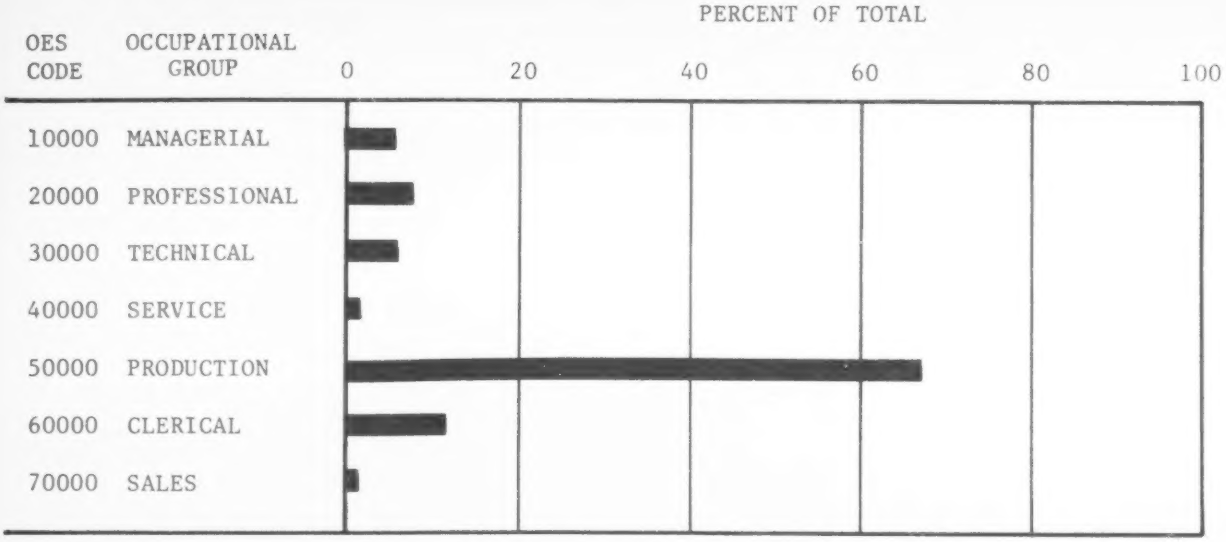
- Bookkeeping and/or Billing Machine Operators
- Carpenters
- Chemical Engineers
- Chemical Operators A
- Chemists
- Delivery and/or Route Workers
- Dip Platers, Non-Electrolytic
- Electroplaters
- File Clerks
- Filers, Grinders, Buffers, Chippers, Cleaners and/or Polishers
- Food Service Workers
- Gear Cutting, Gear Grinding and/or Gear Shaping Machine Operators
- Glass Blowers, Glassware and/or Laboratory Apparatus
- Guards and Doorkeepers
- Heat Treaters, Annealers, and/or Temperers
- Helpers, Trades
- Instrument Repairers
- Lay-Out Markers, Metal
- Machine Tool Operators, Control
- Mechanics, Automotive
- Millwrights
- Nurses, Professional
- Oilers
- Painters, Maintenance
- Peripheral EDP Equipment Operators
- Plater Helpers
- Plumbers and/or Pipefitters
- Power Screwdriver Operators
- Prosthetist-Orthotists
- Receptionists
- Sewing Machine Operators, Special and/or Automatic Equipment -- Nongarment
- Shear and/or Slitter Operators, Metal
- Shear and/or Slitter Setters
- Stationary Boiler Firers
- Stationary Engineers
- Statistical Clerks
- Switchboard Operators
- Tool Programmers, Numerical Control
- Truck Drivers
- Writers and/or Editors

See page 184 for explanation of footnotes.

PERCENT DISTRIBUTION OF MAJOR OCCUPATIONAL GROUPS

INSTRUMENTS AND RELATED PRODUCTS

(SIC 38)



ANNUAL AVERAGE EMPLOYMENT (in thousands)*

1972-1980

INSTRUMENTS AND RELATED PRODUCTS

(SIC 38)

	NEW HAMPSHIRE		UNITED STATES	
YEAR	ANNUAL AVERAGE	PERCENT CHANGE	ANNUAL AVERAGE	PERCENT CHANGE
1972	4.6	-	516.0	-
1973	5.1	10.9	557.3	8.0
1974	5.6	9.8	592.2	6.3
1975	5.0	- 10.7	550.1	- 7.1
1976	5.5	10.0	575.3	4.6
1977	6.3	14.5	615.1	6.9
1978	6.9	9.5	653.1	6.2
1979	7.6	10.1	688.9	5.5
1980 **	7.5	- 1.3	699.7	1.6

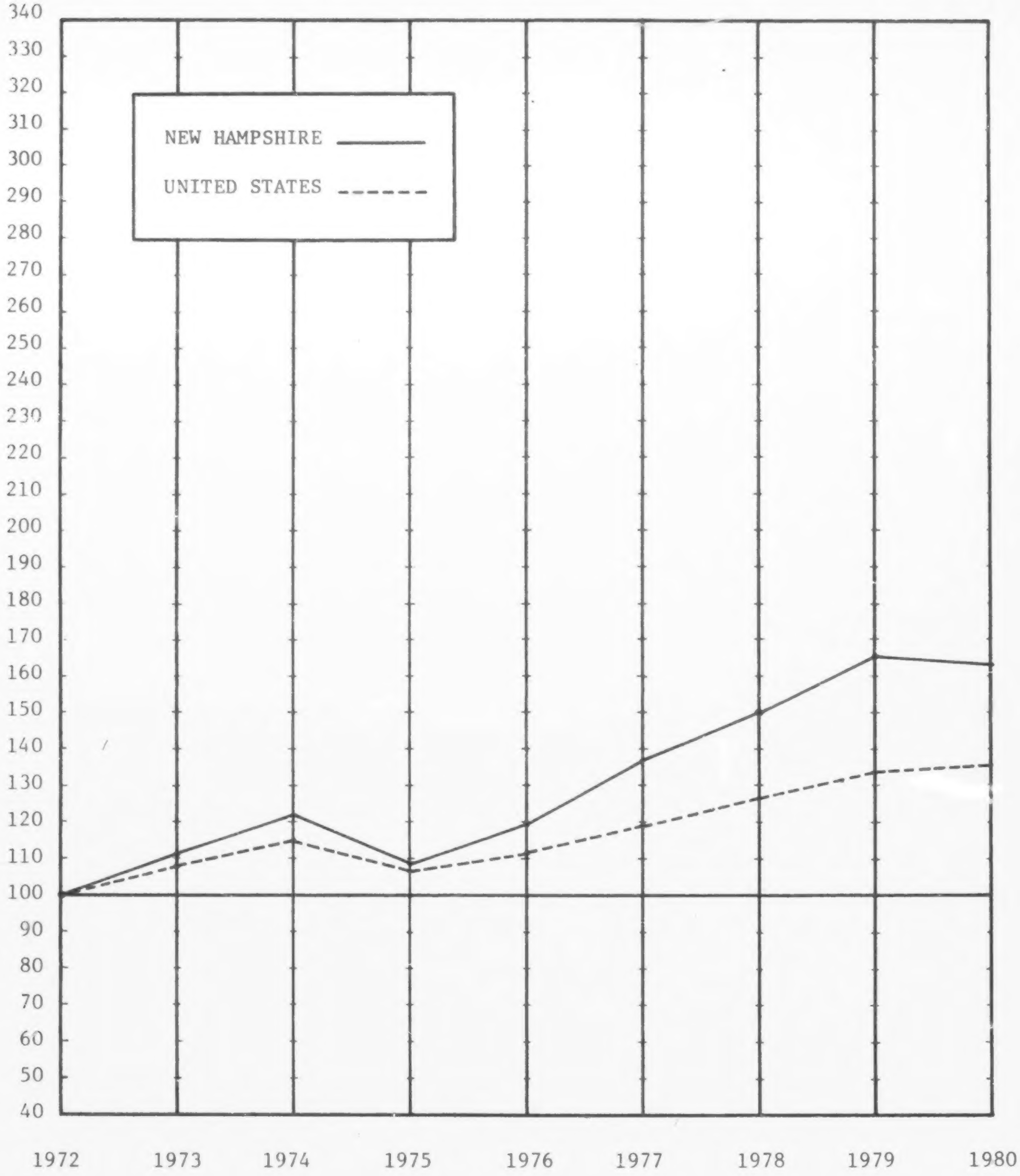
* Nonagricultural Employment

** Employment for 1980 based on preliminary data.

INDEXES OF EMPLOYMENT
NEW HAMPSHIRE AND THE UNITED STATES 1972 - 1980
1972 = 100

INSTRUMENTS AND RELATED PRODUCTS

(SIC 38)



OCCUPATIONAL EMPLOYMENT
DURABLE GOODS MANUFACTURING
MISCELLANEOUS MANUFACTURING INDUSTRIES
(SIC 39)

This major group includes establishments primarily engaged in manufacturing major group. Industries in this group fall into the following categories: jewelry, silverware and plated ware; musical instruments; toys, sporting and athletic goods; pens, pencils, and other office and artists' materials; buttons, costume novelties, miscellaneous notions; brooms and brushes; caskets; and other miscellaneous manufacturing industries.

Wage and salary workers in miscellaneous manufacturing industries totaled 2,004 during the survey of May 1980. This was an increase of 521 or 35 percent over a survey conducted three years earlier. The largest increase (276) was in production related occupations which also had the largest distribution (71 percent) of total employment. Cabinetmakers gained 82 craftsmen since 1977 for an increase of over 154 percent.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	MAY 1980 ESTIMATED EMPLOYMENT
1	55A38	Cabinetmakers	135
2	10000	Managers and Officers	115
3	55U00	Assemblers	95
4	55C76	Sewing Machine Operators, Regular Equipment--Garment	92
5	55C78	Sewing Machine Operators, Regular	86
6	71000	Sales Representatives, Sales Agents and/or Sales Associates	63
7	55N60	Sanders, Wood	56
8	55B29	Supervisors, Nonworking	38
9	55B58	Inspectors	34
10	55S63	Casket Coverers and/or Casket Liners	29

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	10000	Managers and Officers	78.8
2	41000	Janitors, Porters, and Cleaners	30.3
	55U00	Assemblers	30.3
	61333	General Clerks, Office	30.3
	61368	Secretaries	30.3

STAFFING PATTERNS

MISCELLANEOUS MANUFACTURING INDUSTRIES

(SIC 39)

OCCUPATIONAL TITLE	OES CODE	MAY 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
TOTAL ALL OCCUPATIONS		2,004	100.0				
MANAGERS AND OFFICERS	10000	115	5.7	3	118	112	78.8
PROFESSIONAL OCCUPATIONS	20000	73	3.6				
All Engineers	21000	15	0.7	NA	-	-	NA
Accountants and Auditors	25401	24	1.2	3	25	23	27.3
Designers	25489	12	0.6	13	14	10	18.2
All Other Professional Workers	29000	22	1.1	NA	-	-	NA
TECHNICAL OCCUPATIONS	30000	28	1.4				
Computer Programmers	31000	11	0.6	0	11	11	3.0
All Engineering Technicians	32000	11	0.6	NA	-	-	NA
All Other Technicians	39000	6	0.2	NA	-	-	NA
SERVICE OCCUPATIONS	40000	29	1.5				
Janitors, Porters, and Cleaners	41000	26	1.3	3	27	25	30.3
All Other Service Workers	49000	3	0.2	NA	-	-	NA
PRODUCTION OCCUPATIONS	50000	1,431	71.4				
Mechanics, Maintenance	51043	18	0.9	0	18	18	9.1
All Other Mechanics and Repairers	51900	4	0.2	NA	-	-	NA
Truck Drivers	54000	14	0.7	5	15	13	15.2
Cabinetmakers	55A38	135	6.7	0	135	135	15.2
Supervisors, Nonworking	55B29	38	1.9	7	41	35	27.3
Inspectors	55B58	34	1.7	16	39	29	24.2
Jewelers and/or Silversmiths	55B66	10	0.5	41	14	6	6.1

See page 184 for explanation of footnotes.

STAFFING PATTERNS

MISCELLANEOUS MANUFACTURING INDUSTRIES

(SIC 39)

OCCUPATIONAL TITLE	OES CODE	MAY 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Maintenance Repairers, General Utility	55B86	11	0.5	8	12	10	21.2
Order Fillers	55C08	10	0.5	10	11	9	6.1
Press Operators and/or Plate Printers	55C36	14	0.7	0	14	14	6.1
Sewing Machine Operators, Regular Equipment--Garment	55C76	92	4.6	16	107	77	12.1
Sewing Machine Operators, Regular Equipment--Nongarment	55C78	86	4.3	33	114	58	21.2
Sanders, Wood	55N60	56	2.8	0	56	56	9.1
Woodworking Machine Operators	55R43	14	0.7	0	14	14	12.1
Painters, Production	55R68	22	1.1	5	23	21	12.1
Casket Coverers, and/or Casket Liners	55S63	29	1.4	0	29	29	9.1
Assemblers	55U00	95	4.8	9	104	86	30.3
All Other Skilled Craft and Kindred Workers	59001	60	3.0	NA	-	-	NA
All Other Operatives and Semiskilled Workers	59002	334	16.7	NA	-	-	NA
All Other Laborers and Unskilled Workers	59003	355	17.7	NA	-	-	NA
CLERICAL OCCUPATIONS	60000	250	12.5				
Computer Operators	61105	13	0.7	11	14	12	15.2
Peripheral EDP Equipment Operators	61109	12	0.6	0	12	12	3.0
All Other Office Machine Operators	61199	16	0.8	NA	-	-	NA
Accounting Clerks	61301	11	0.5	4	11	11	18.2
Bookkeepers, Hand	61307	12	0.6	6	13	11	27.3
General Clerks, Office	61333	20	1.0	3	21	19	30.3
Order Clerks	61350	22	1.1	8	24	20	21.2
Secretaries	61368	22	1.1	6	23	21	30.3
Clerical Supervisors, Office or Plant	61396	20	1.0	5	21	19	18.2

See page 184 for explanation of footnotes.

STAFFING PATTERNS

MISCELLANEOUS MANUFACTURING INDUSTRIES

(SIC 39)

OCCUPATIONAL TITLE	OES CODE	MAY 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
All Other Office Clerical Workers	61900	40	2.0	NA	-	-	NA
Production Clerks and/or Coordinators	62003	13	0.7	11	14	12	18.2
Shipping Packers	62004	26	1.3	14	30	22	21.2
Shipping and/or Receiving Clerks	62005	14	0.7	10	15	13	24.2
All Other Plant Clerical Workers	62900	9	0.4	NA	-	-	NA
SALES OCCUPATIONS	70000	78	3.9				
Sales Representatives, Sales Agents and/or Sales Associates	71000	63	3.2	1	64	62	27.3
Sales Clerks	72002	15	0.7	17	18	12	6.1

See page 184 for explanation of footnotes.

STAFFING PATTERNS

MISCELLANEOUS MANUFACTURING INDUSTRIES

(SIC 39)

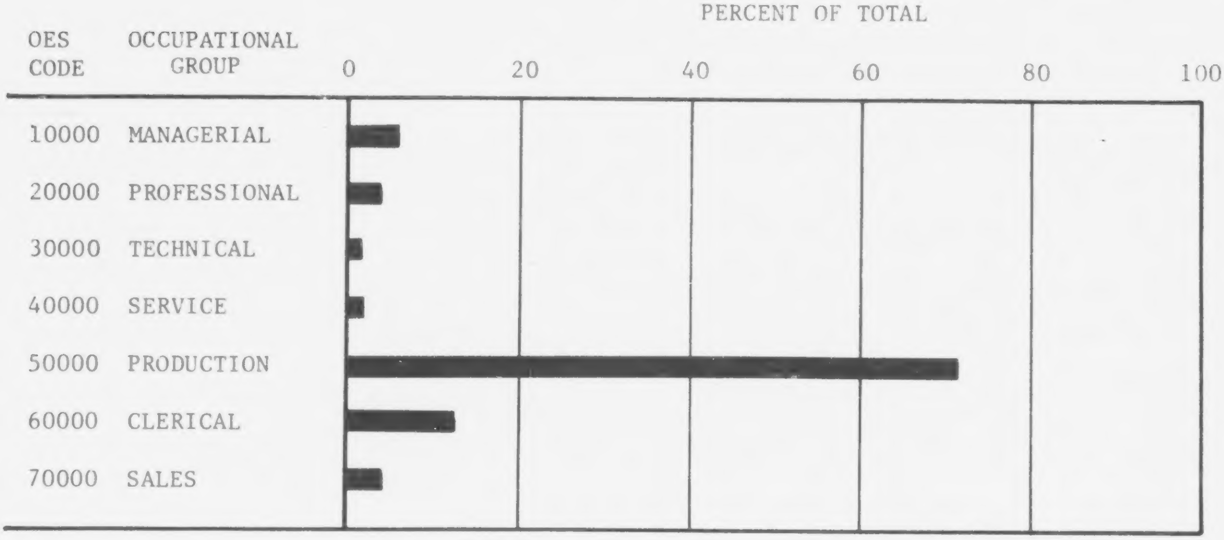
Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

Bench Hands, Jewelry
Bookkeeping and/or Billing Machine Operators
Boring Machine Operators, Wood
Carpenters
Casters
Casters, Plastics
Chemists
Compositors and/or Typesetters
Crane, Derrick, and Hoist Operators
Cut-Off Saw Operators, Lumber
Delivery and/or Route Workers
Drafters
Drill Press and/or Boring Machine Operators
Electrical and Electronic Technicians
Electricians
Etchers and/or Engravers
File Clerks
Filers, Grinders, Buffers, Chippers, Cleaners, and/or Polishers
Gluers and/or Cementers, Hand
Grinding and/or Abrading Machine Operators, Metal
Helpers, Trades
Industrial Engineers
Industrial Truck Operators
Keypunch Operators
Lathe and/or Turning Machine Operators, Metal
Lathe Operators, Wood
Machine Setters, Woodworking
Machinists
Mechanical Engineers
Mechanics, Automotive
Payroll and/or Timekeeping Clerks
Personnel and Labor Relations Specialists
Personnel Clerks
Plater Helpers
Plumbers and/or Pipefitters
Procurement Clerks
Production Packagers, Hand or Machine
Punch-Press Operators, Metal
Punch-Press Setters, Metal
Purchasing Agents and/or Buyers
Receptionists
Ripsaw Operators
Screen or Stencil Printers and/or Setters
Sewing Machine Operators, Special and/or Automatic Equipment--Garment
Sewing Machine Operators, Special and/or Automatic Equipment--Nongarment
Statistical Clerks
Stenographers
Stock Clerks, Stockroom, Warehouse or Storage Yard
Switchboard Operators
Switchboard Operator/Receptionists
Systems Analysts, Electronic Data Processing
Tool and Die Makers
Typists
Vulcanizers, Rubber Plate
Wax Pattern Workers
Welders and/or Flamecutters
Wood Carving Machine Operators
Wood Machinists

PERCENT DISTRIBUTION OF MAJOR OCCUPATIONAL GROUPS

MISCELLANEOUS MANUFACTURING INDUSTRIES

(SIC 39)



ANNUAL AVERAGE EMPLOYMENT (in thousands)*

1972-1980

MISCELLANEOUS MANUFACTURING INDUSTRIES

(SIC 39)

	NEW HAMPSHIRE		UNITED STATES	
YEAR	ANNUAL AVERAGE	PERCENT CHANGE	ANNUAL AVERAGE	PERCENT CHANGE
1972	1.5	-	433.3	-
1973	1.5	0	454.4	4.9
1974	1.6	6.7	452.0	- 0.5
1975	1.5	- 6.3	406.8	- 10.0
1976	1.6	6.7	429.1	5.5
1977	1.7	6.3	438.4	2.2
1978	1.9	11.8	451.5	3.0
1979	2.0	5.3	445.6	- 1.3
1980 **	2.0	0	422.0	- 5.3

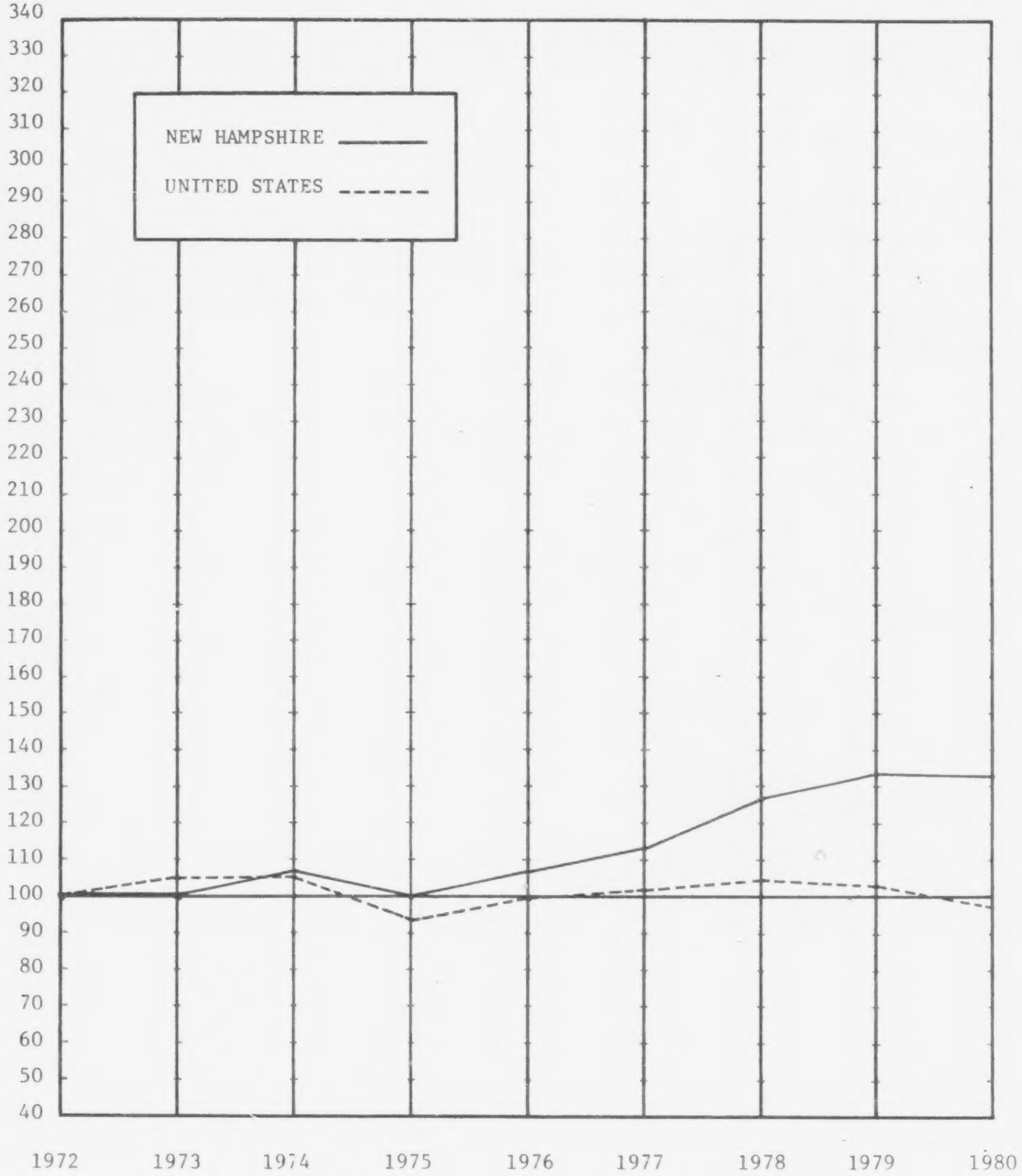
* Nonagricultural Employment

** Employment for 1980 based on preliminary data.

INDEXES OF EMPLOYMENT
NEW HAMPSHIRE AND THE UNITED STATES 1972 - 1980
1972 = 100

MISCELLANEOUS MANUFACTURING INDUSTRIES

(SIC 39)



SUMMARY

OCCUPATIONAL EMPLOYMENT

NONDURABLE GOODS MANUFACTURING

(SIC 20-23, 26-31)

There were 42,432 wage and salary workers employed in the nondurable goods manufacturing sector during the occupational survey period of the second quarter of 1980. The largest major occupational group was the production and production related jobs with 32,757 workers representing over 77 percent of the total employment. This was followed by the clerical group with 4,272 workers, or more than ten percent, and the managerial group with 1,980 employees, or almost five percent of the total employment in the nondurable goods sector. The five occupations employing the largest number of workers combined to make up almost 18 percent of the total work force in nondurable goods manufacturing.

THE TWENTY OCCUPATIONS EMPLOYING THE

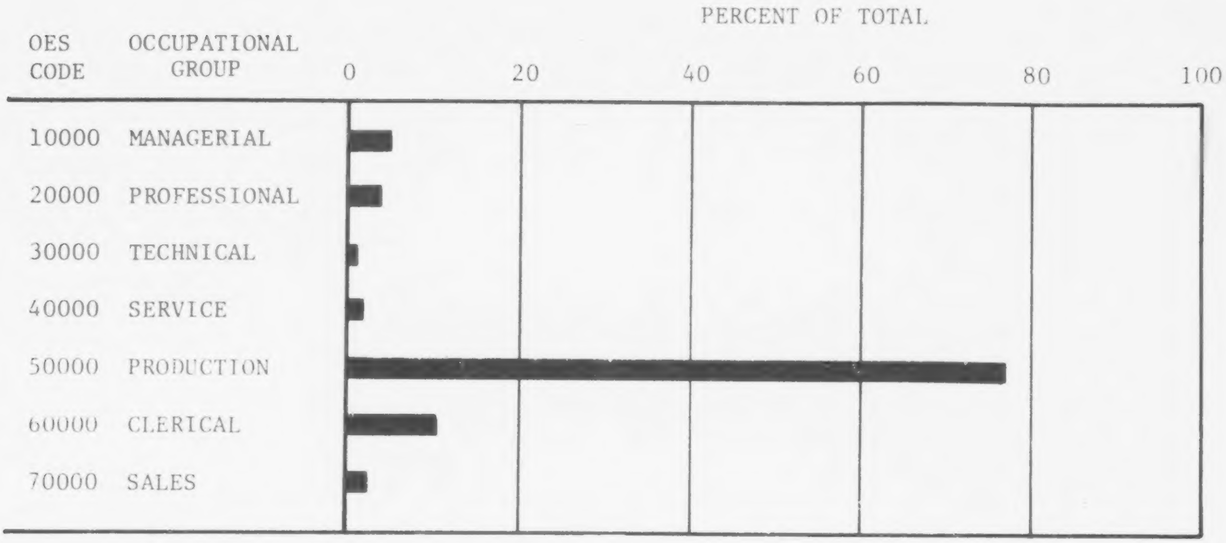
LARGEST NUMBER OF WORKERS

LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
1	10000	Managers and Officers	1,980	4.7
2	55C39	Production Packagers, Hand or Machine	1,783	4.2
3	55C76	Sewing Machine Operators, Regular Equipment - - Garment	1,382	3.3
4	55B29	Supervisors, Nonworking	1,275	3.0
5	55Q16	Stitchers, Standard Machine	1,027	2.4
6	55B62	Inspectors	883	2.1
7	71000	Sales Representatives, Sales Agents, and/or Sales Associates	804	1.9
8	55U00	Assemblers	766	1.8
9	55B86	Maintenance Repairers, General Utility	677	1.6
10	55D56	Offset Lithographic Press Operators, Sheet, Roll or Web Fed	571	1.3
11	55C78	Sewing Machine Operators, Regular Equipment - - Nongarment	555	1.3
12	55H74	Die Cutter and/or Clicking Machine Operators	536	1.3
13	61333	General Clerks, Office	513	1.2
14	55I85	Floor Workers, Footwear	496	1.2
15	62004	Shipping Packers	486	1.1
16	51043	Mechanics, Maintenance	394	0.9
17	61368	Secretaries	380	0.9
18	41000	Janitors, Porters, and Cleaners	378	0.9
19	55B57	Industrial Truck Operators	367	0.9
20	55A87	Delivery and/or Route Workers	366	0.9

PERCENT DISTRIBUTION OF MAJOR OCCUPATIONAL GROUPS

NONDURABLE GOODS MANUFACTURING



ANNUAL AVERAGE EMPLOYMENT (in thousands)*

1972-1980

NONDURABLE GOODS MANUFACTURING

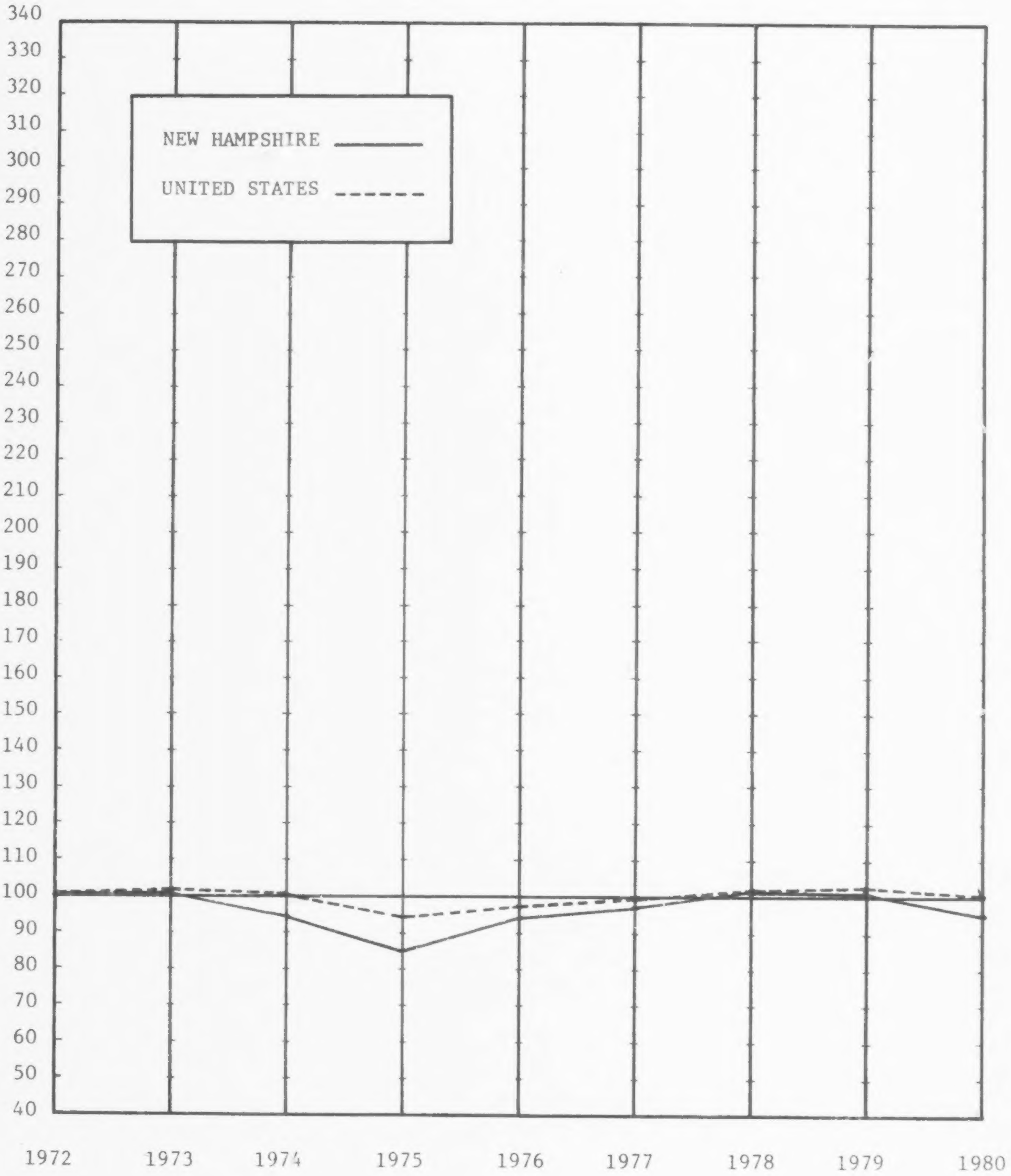
	NEW HAMPSHIRE		UNITED STATES	
YEAR	ANNUAL AVERAGE	PERCENT CHANGE	ANNUAL AVERAGE	PERCENT CHANGE
1972	44.8	-	8,102.0	-
1973	45.0	0.4	8,262.0	2.0
1974	42.4	- 5.8	8,152.0	- 1.3
1975	38.4	- 9.4	7,635.0	- 6.3
1976	42.3	10.2	7,920.0	3.7
1977	43.8	3.5	8,086.0	2.1
1978	45.4	3.7	8,231.0	1.8
1979	45.4	0	8,290.0	0.7
1980**	42.7	- 5.9	8,146.0	- 1.7

* Nonagricultural Employment

** Employment for 1980 based on preliminary data

INDEXES OF EMPLOYMENT
NEW HAMPSHIRE AND THE UNITED STATES 1972 - 1980
1972 = 100

NONDURABLE GOODS MANUFACTURING



STAFFING PATTERNS

NONDURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
TOTAL ALL OCCUPATIONS		42,432	100.00
MANAGERS AND OFFICERS	10000	1,980	4.67
PROFESSIONAL OCCUPATIONS	20000	1,420	3.35
Chemical Engineers	21003	36	.08
Electrical and Electronic Engineers	21005	33	.08
Industrial Engineers	21006	177	.42
Mechanical Engineers	21008	100	.24
All Other Engineers	21900	97	.23
Chemists	22201	44	.10
All Life Scientists	22300	9	.02
Systems Analysts, Electronic Data Processing	24000	38	.09
Photographers	25200	15	.04
Purchasing Agents and/or Buyers	25300	125	.29
Accountants and Auditors	25401	157	.37
Commercial Artists	25426	40	.09
Writers and/or Editors	25436	147	.35
Nurses, Professional	25457	17	.04
Personnel and Labor Relations Specialists	25465	64	.15
Reporters and Correspondents	25476	183	.43
Designers	25489	86	.20
Estimators, Printing Services	25540	20	.05
All Other Professional Workers	29000	32	.08
TECHNICAL OCCUPATIONS	30000	396	.93
Computer Programmers	31000	60	.14
Drafters	32003	78	.18
Electrical and Electronic Technicians	32004	10	.02
Industrial Engineering Technicians	32019	10	.02
All Other Engineering Technicians	32900	97	.23
All Science Technicians	33000	50	.12
All Other Technicians	39000	91	.22
SERVICE OCCUPATIONS	40000	692	1.63
Janitors, Porters, and Cleaners	41000	378	.89
Guards and Doorkeepers	42000	104	.25

STAFFING PATTERNS

NONDURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Food Service Workers	43000	19	.04
Supervisors, Nonworking--Service Only	44014	67	.16
All Other Service Workers	49000	124	.29
PRODUCTION OCCUPATIONS	50000	32,757	77.20
Mechanics, Automotive	51008	43	.10
Mechanics, Maintenance	51043	394	.93
Refrigeration Mechanics and/or Air Conditioning Mechanics	51052	10	.02
Coin Machine Servicers and/or Vending Machine Repairers	51056	35	.08
Knitting Machine Fixers	51061	34	.08
Loom Fixers	51062	96	.23
Section Repairers and Setters	51065	35	.08
Mechanics, Sewing Machine	51070	36	.08
All Other Mechanics and Repairers	51900	71	.17
Developers and/or Projection Printers	52002	12	.03
Pressers, Hand	53014	42	.10
Pressers, Machine	53015	72	.17
Truck Drivers	54000	353	.83
Carpenters	55A47	50	.12
Cooks and/or Cookers	55A79	34	.08
Crane, Derrick, and Hoist Operators	55A82	13	.03
Delivery and/or Route Workers	55A87	366	.86
Drawer-in, Hand	55A91	17	.04
Electricians	55B12	185	.44
Supervisors, Nonworking	55B29	1,275	3.00
Riggers	55B54	19	.04
Industrial Truck Operators	55B57	367	.87
Inspectors	55B58	883	2.08
Instrument Repairers	55B62	34	.08
Instructors, Apparel and Textile Machines	55B65	20	.05
Machinists	55B84	287	.68
Maintenance Repairers, General Utility	55B86	667	1.57
Helpers, Trades	55B87	175	.41
Mixers	55B93	31	.07
Millwrights	55B95	161	.38
Oilers	55C06	53	.13

STAFFING PATTERNS

NONDURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Order Fillers	55C08	331	.78
Oven Operators	55C10	17	.04
Painters, Maintenance	55C12	33	.08
Plumbers and/or Pipefitters	55C30	92	.22
Press Operators and/or Plate Printers	55C36	63	.15
Production Packagers, Hand or Machine	55C39	1,783	4.20
Scrappers and/or Strippers, Hand or Machine	55C68	24	.06
Sewing Machine Operators, Regular Equipment--Garment	55C76	1,382	3.26
Sewing Machine Operators, Special Equipment and/or Automatic Equipment--Garment	55C77	117	.28
Sewing Machine Operators, Regular Equipment--Nongarment	55C78	555	1.31
Sewing Machine Operators, Special and/or Automatic Equipment--Nongarment	55C79	180	.42
Sheet Metal Workers	55C81	33	.08
Spooler Operators, Automatic	55C88	15	.04
Stationary Boiler Firers	55C90	53	.13
Stationary Engineers	55C91	64	.15
Skivers	55D04	92	.22
Tool and Die Makers	55D23	83	.20
Welders and/or Flamecutters	55D46	64	.15
Weavers	55D48	349	.82
Offset Lithographic Press Operators, Sheet, Roll or Web Fed	55D56	571	1.35
Platemakers	55D57	64	.15
Strippers, Printing and Publishing	55D58	143	.34
Camera Operators, Printing	55D59	116	.27
Trimmers, Machine	55D94	127	.30
Assemblers for Puller-Over, Hand or Machine	55E25	150	.35
Back Tenders	55E32	128	.30
Baker Helpers	55E37	135	.32
Battery Loaders	55E54	28	.07
Beam Warper Tenders, Automatic and/or Beamers	55E58	32	.08
Beater Engineers	55E61	44	.10
Beaters	55E62	54	.13
Bed Lasters	55E63	53	.13
Blending Machine Operators	55E84	21	.05

STAFFING PATTERNS

NONDURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Bobbin Winders, Machine or Sewing Machine	55E90	15	.04
Boners, Meat	55E95	14	.03
Bottom Fillers	55F03	67	.16
Buffers, Hides or Skins	55F23	39	.09
Buffers, Shoe Parts	55F24	112	.26
Bundlers	55F29	47	.11
Burlers	55F30	74	.17
Card Tenders, Comber Tenders, and/or Card Strippers	55F62	189	.45
Casing Finishers and/or Stuffers	55F70	47	.11
Drawing Frame Tenders and/or Gill Box Tenders	55F87	40	.09
Cementers, Machine Joiner	55F91	64	.15
Chemical Operators A	55G14	26	.06
Chemical Operators B	55G15	21	.05
Perforator Operators	55G16	25	.06
Chemical Operator Helpers	55G17	45	.11
Cloth Finishing Range Tenders, Middle	55G33	45	.11
Cloth Finishing Range Operators, Chief	55G34	10	.02
Coater Operators, Off Machine	55G43	47	.11
Cobblers	55G49	54	.13
Combiner Operators	55G56	56	.13
Creelers, Yarn	55G98	42	.10
Curers, Rubber Goods	55H15	13	.03
Cutters, Portable Machine	55H25	61	.14
Cutting and Creasing Press Operators	55H28	15	.04
Cylinder Machine Tenders	55H32	52	.12
Dairy Processing Equipment Operators	55H35	19	.04
Die Cutter and/or Clicking Machine Operators	55H64	536	1.26
Dipping Machine Operators	55H76	81	.19
Doffers	55H79	60	.14
Dresser Tenders	55H90	17	.04
Dye-Range Operators and Spiral Dye-Beck Tenders	55I11	26	.06
Dye-Reel Operators, Jiggers, and/or Padding Machine Operators	55I12	17	.04
Dye-Tank Tenders, Nets; Warp-Dyeing-Vat Tenders; and/or Knit Goods Yarn Dyers, Vat	55I13	14	.03

STAFFING PATTERNS

NONDURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Ending Machine Operators	55I29	40	.09
Envelope Machine Operators	55I34	314	.74
Fabricators, Plastics	55I50	103	.24
Finishers, Hand	55I69	314	.74
Flamers	55I82	32	.08
Flavor Room Workers and/or Freezer Operators	55I83	11	.03
Floor Workers, Footwear	55I85	496	1.17
Folders, Machine	55I89	29	.07
Folding Machine Operators, Paper	55I93	80	.19
Fourdrinier-Machine Tenders	55J02	60	.14
Fusing Machine Operators	55J20	16	.04
Garment Repairers	55J24	12	.03
Harness Builders, Loom Changers and/or Loom Starters	55J78	19	.04
Heel Attachers	55J89	43	.10
Heel Seat Lasters, Machine	55J92	34	.08
Heel Seat Fitters, Machine	55J94	14	.03
Inkers, Hand or Machine	55K18	24	.06
Kettle Operators, Adhesive	55K34	19	.04
Knitting Machine Operators	55K46	118	.28
Lasters, Hand	55K54	36	.08
Lasting Machine Operators, Hand Method	55K55	43	.10
Tanning Liquor Makers	55K79	11	.03
Envelope Finishing Machine Operators	55K95	17	.04
Machine Setters, Paper Goods	55K98	43	.10
Meat Grinders	55L16	38	.09
Menders, Cloth	55L18	22	.05
Rubber Mill Operators	55L33	12	.03
Napper Tenders	55L73	26	.06
Needle Felt Making Machine Operators and/or Needle Loom Operators	55L74	43	.10
Novelty Workers	55L82	10	.02
Paper Reel Operators and/or Rewinder Operators	55L97	34	.08
Patternmakers, Plastics	55M06	17	.04
Patternmakers	55M08	22	.05
Picker Tenders	55M15	35	.08
Press Operators, Meat	55M62	38	.09
Printer Slotter Operators	55M64	37	.09
Puller-Overs	55M70	14	.03
Pulp Refiner Operators	55M73	15	.04

STAFFING PATTERNS

NONDURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Pulpers	55M74	24	.06
Quilling Machine Operators, Automatic or Non-Automatic	55M88	44	.10
Repairers, Finish	55N05	141	.33
Plastics Repairers	55N06	54	.13
Rough Rounders, Machine	55N37	20	.05
Rubber Goods Cutter-Finishers	55N43	18	.04
Sample Makers	55N51	12	.03
Seam Rubbing Machine Operators	55N81	40	.09
Seasoners, Machine	55N84	13	.03
Shoe Parts Sewers, Hand	55P01	193	.46
Shank-Piece Tackers	55P05	27	.06
Shellfish Shuckers	55P15	64	.15
Side Lasters	55P21	54	.13
Slitter-Scorer-Cut-Off Operators	55P47	31	.07
Slitting Machine Operators	55P49	110	.26
Smash Hand	55P54	14	.03
Sole Levelers, Machine	55P61	27	.06
Sorters, Leather	55P63	76	.18
Spinners, Frame	55P74	238	.56
Splitting Machine Feeders	55P78	24	.06
Sprayers, Hand and/or or Machine	55P83	44	.10
Spreaders	55P84	40	.09
Stainers	55P90	18	.04
Stakers, Machine	55P91	23	.05
Still Operators, Batch or Continuous	55Q11	12	.03
Stitchers, Special Machine	55Q15	56	.13
Stitchers, Standard Machine	55Q16	1,027	2.42
Stitchers, Utility	55Q17	205	.48
Strippers, Rubber and Miscellaneous Plastics	55Q35	23	.05
Tackers, Togglers, and Pasters	55Q45	92	.22
Tanning Drum Operators and/or Colorers, Hides or Skins	55Q50	37	.09
Taping Machine Operators	55Q51	57	.13
Testers	55Q57	155	.37
Thermolasting Machine Operators	55Q58	52	.12
Thread Trimmers	55Q62	75	.18
Toe Lasters	55Q76	18	.04
Trimmers, Plastics	55Q79	51	.12
Treers	55Q84	76	.18
Splicers	55Q92	71	.17

STAFFING PATTERNS

NONDURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Twister Tenders	55R03	40	.09
Vulcanizers, Footwear	55R16	18	.04
Warp-Tying Machine Tenders	55R24	20	.05
Wet Machine Tenders	55R35	18	.04
Winders, Paper Machine	55R37	94	.22
Winder Operators, Automatic	55R38	45	.11
Work Distributors	55R46	51	.12
Wrapping Machine Operators	55R48	38	.09
Wringer Machine Operators	55R49	34	.08
Yarn Winders	55R53	49	.12
Press Tenders, Rubber Goods	55R57	93	.22
Painters, Production	55R68	154	.36
Riveters, Light	55R77	38	.09
Compression and/or Injection Molding Machine Operators, Plastics	55R85	361	.85
Conveyor Operators or Tenders	55R90	81	.19
Fourth Hands and/or Fifth Hands, Paper Machine	55R95	119	.28
Cloth Graders	55S21	23	.05
Cutting Machine Operators, Food	55S22	17	.04
Baling Machine Operators	55S25	18	.04
Setters, Plastic Molding Machine	55S28	95	.22
Punch Press Operators, Plastics	55S30	53	.13
Drier Operators, Chemicals, Plastic Resins, and Rubber	55S38	11	.03
Cannery Workers	55S47	13	.03
Chief Operators	55S53	72	.17
Waste Treatment Plant Operators, Chemicals	55S54	12	.03
Splitters, Machine	55S67	32	.08
Fasteners, Machine	55S68	81	.19
Cementers, Pasters, Backers, or Fitters, Hand	55S69	269	.63
Eyelet Machine Operators	55S70	47	.11
Molders, Shoe Parts	55S71	17	.04
Pulling and Lasting Machine Operators	55S73	50	.12
Purification Operators and/or Monomer Purification Operators	55S76	14	.03
Markers	55S77	15	.04
Cutters, Hand	55S78	151	.36
Turners	55S80	22	.05

STAFFING PATTERNS

NONDURABLE GOODS MANUFACTURING

OCCUPATIONAL	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Folders, Hand	55S81	27	.06
Copy Markers	55T01	10	.02
Hand Compositors	55T03	98	.23
Imposers and Makeup Arrangers	55T04	24	.06
Line Casting Machine Operators	55T05	23	.05
Line Casting Machine Keyboard Operators	55T06	14	.03
Pasteup Workers	55T11	114	.27
Phototypesetting Machine Keyboard Operators	55T12	40	.09
Phototypesetting Machine Monitors	55T13	32	.08
Phototypesetter Operators	55T14	67	.16
Proofreaders, Composed Copy	55T15	86	.20
Photoengravers	55T18	25	.06
Letter Press Operators, Sheet, Roll or Web Fed	55T23	130	.31
Letterset Press Operators, Sheet, Roll or Web Fed	55T24	10	.02
Press Assistants and Feeders	55T27	93	.22
Setters, Bindery Machines	55T28	32	.08
Mailers	55T31	165	.39
Equipment Cleaners, Hand	55T62	43	.10
Gluers and/or Cementers, Hand	55T65	94	.22
Cutters, Machine	55T66	361	.85
Drier Operators, Textiles and Rugs	55T69	21	.05
Screen or Stencil Printers and/or Setters	55T70	17	.04
Embossing, Stamping, and/or Marking Machine Operators	55T79	200	.47
Bookbinders, Hand	55T80	32	.08
Bookbinders, Machine	55T81	90	.21
Bindery Workers, Assembly	55T82	177	.42
Bindery Workers, Stitching	55T83	24	.06
All Other Bindery Workers	55T84	93	.22
Grinder Operators, Chemicals, Plastics, Rubber, and Related Materials	55T86	24	.06
Extruder Operators, Plastics or Rubber	55T91	78	.18
Extruder Operator Helpers, Plastics or Rubber	55T92	29	.07
Heat Sealers	55T94	72	.17
Assemblers	55U00	766	1.81
Beamers, Hand or Machine	55V09	18	.04

STAFFING PATTERNS

NONDURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Tinters	57030	11	.03
Mixers and/or Blenders, Chemicals and Chemical Products	57031	184	.43
Blow-Molding Machine Operators	58002	103	.24
Casters, Plastics	58004	11	.03
Press Operators, Plastics	58010	64	.15
Rotation Molding Machine Operators	58011	37	.09
Vacuum Plastic Forming Machine Operators	58014	22	.05
All Other Skilled Craft and Kindred Workers	59001	459	1.08
All Other Operatives and Semiskilled Workers	59002	2,041	4.81
All Other Laborers and Unskilled Workers	59003	3,928	9.26
CLERICAL OCCUPATIONS	60000	4,272	10.07
Bookkeeping and/or Billing Machine Operators	61103	41	.10
Computer Operators	61105	62	.15
Keypunch Operators	61107	106	.25
Inserting and/or Labeling Machine Operators	61117	32	.08
All Other Office Machine Operators	61199	34	.08
Stenographers	61200	27	.06
Accounting Clerks	61301	228	.54
Bookkeepers, Hand	61307	202	.48
File Clerks	61330	39	.09
General Clerks, Office	61333	513	1.21
Order Clerks	61350	162	.38
Payroll and/or Timekeeping Clerks	61351	195	.46
Personnel Clerks	61352	42	.10
Procurement Clerks	61355	37	.09
Receptionists	61361	32	.08
Secretaries	61368	380	.89
Statistical Clerks	61374	15	.04
Switchboard Operators	61376	21	.05
Switchboard Operator/Receptionists	61377	82	.19
Typists	61392	191	.45
Clerical Supervisors, Office or Plant	61396	222	.52

STAFFING PATTERNS

NONDURABLE GOODS MANUFACTURING

OCCUPATIONAL	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Circulation Clerks	61416	44	.10
Classified-Ad Clerks, Newspaper	61417	17	.04
Customer Service Representatives, Printing and Publishing	61418	34	.08
Telephone Ad-Takers, Newspaper	61419	46	.11
All Other Office Clerical Workers	61900	114	.27
Production Clerks and/or Coordinators	62003	183	.43
Shipping Packers	62004	486	1.14
Shipping and/or Receiving Clerks	62005	339	.80
Weighers, Record Keeping	62007	21	.05
Stock Clerks, Stockroom, Warehouse or Storage Yard	62008	214	.50
All Other Plant Clerical Workers	62900	111	.26
SALES OCCUPATIONS	70000	915	2.15
Sales Representatives, Sales Agents, and/or Sales Associates	71000	804	1.89
Sales Clerks	72002	101	.24
All Other Sales Workers	79000	10	.02

OCCUPATIONAL EMPLOYMENT
NONDURABLE GOODS MANUFACTURING
FOOD AND KINDRED PRODUCTS
(SIC 20)

This major group includes establishments manufacturing or processing foods and beverages for human consumption, and certain related products, such as manufactured ice, chewing gum,- vegetable and animal fats and oils, and prepared feeds for animals and fowls.

During the survey month of June 1980 there were 2,937 wage and salary workers in the food and kindred products manufacturing group. This represents a decrease of 310, or a 9.5 percent loss from the survey of the same month in 1977. Almost 77 percent of the workers in 1980 were employed in production related jobs, slightly more than the earlier survey. Approximately one fourth of the production workers were employed as production packagers, hand or machine. Delivery and/or route workers constituted the next largest single occupation with 281 workers, or 12.5 percent of the production worker group.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	JUNE 1980 ESTIMATED EMPLOYMENT
1	55C39	Production Packagers, Hand or Machine	550
2	55A87	Delivery and/or Route Workers	281
3	10000	Managers and Officers	193
4	55E37	Baker Helpers	135
5	55B29	Supervisors, Nonworking	99
6	55B86	Maintenance Repairers, General Utility	88
7	54000	Truck Drivers	77
8	55P15	Shellfish Shuckers	64
9	71000	Sales Representatives, Sales Agents, and/or Sales Associates	62
10	62004	Shipping Packers	52

THE SIX MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	10000	Managers and Officers	87.0
2	55A87	Delivery and/or Route Workers	50.0
	55C39	Production Packagers, Hand or Machine	50.0
4	71000	Sales Representatives, Sales Agents, and/or Sales Associates	43.5
5	61307	Bookkeepers, Hand	32.6
	61333	General Clerks, Office	32.6

STAFFING PATTERNS

FOOD AND KINDRED PRODUCTS

(SIC 20)

OCCUPATIONAL TITLE	OES CODE	JUNE 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
TOTAL ALL OCCUPATIONS		2,937	100.0				
MANAGERS AND OFFICERS	10000	193	6.6	3	199	187	87.0
PROFESSIONAL OCCUPATIONS	20000	45	1.6				
All Engineers	21000	14	0.5	NA	-	-	NA
Accountants and Auditors	25401	15	0.5	4	16	14	21.7
All Other Professional Workers	29000	16	0.6	NA	-	-	NA
TECHNICAL OCCUPATIONS	30000	13	0.4				
SERVICE OCCUPATIONS	40000	28	0.9				
Janitors, Porters, and Cleaners	41000	18	0.6	12	20	16	15.2
All Other Service Workers	49000	10	0.3	NA	-	-	NA
PRODUCTION OCCUPATIONS	50000	2,257	76.9				
Mechanics, Automotive	51008	25	0.8	4	26	24	26.1
Mechanics, Maintenance	51043	40	1.4	5	42	38	17.4
Coin Machine Servicers and/or Vending Machine Repairers	51056	35	1.2	5	37	33	17.4
All Other Mechanics and Repairers	51900	9	0.3	NA	-	-	NA
Truck Drivers	54000	77	2.6	9	84	70	23.9
Cooks and/or Cookers	55A79	34	1.2	3	35	33	17.4
Delivery and/or Route Workers	55A87	281	9.6	5	295	267	50.0
Supervisors, Nonworking	55B29	99	3.4	3	102	96	21.7
Industrial Truck Operators	55B57	46	1.6	3	47	45	23.9
Maintenance Repairers, General Utility	55B86	88	3.0	2	90	86	21.7

See page 184 for explanation of footnotes.

STAFFING PATTERNS

FOOD AND KINDRED PRODUCTS

(SIC 20)

OCCUPATIONAL TITLE	OES CODE	JUNE 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Mixers	55B93	31	1.1	6	33	29	28.3
Order Fillers	55C08	35	1.2	8	38	32	23.9
Oven Operators	55C10	17	0.6	8	18	16	13.0
Production Packagers, Hand	55C39	550	18.7	2	561	539	50.0
Stationary Engineers	55C91	10	0.3	0	10	10	2.2
Baker Helpers	55E37	135	4.6	13	153	117	8.7
Boners, Meat	55E95	14	0.5	8	15	13	4.3
Casing Finishers and/or Stuffers	55F70	47	1.6	9	51	43	4.3
Dairy Processing Equipment Operators	55H35	19	0.6	11	21	17	8.7
Flavor Room Workers and/or Freezer Operators	55I83	11	0.4	11	12	10	8.7
Meat Grinders	55L16	38	1.3	4	40	36	6.5
Novelty Workers	55L82	10	0.3	27	13	7	2.2
Press Operators, Meat	55M62	38	1.3	9	41	35	4.3
Shellfish Shuckers	55P15	64	2.2	27	81	47	6.5
Testers	55Q57	47	1.6	2	48	46	13.0
Cutting Machine Operators, Food	55S22	17	0.6	3	18	16	4.3
Cannery Workers	55S47	13	0.4	0	13	13	2.2
Equipment Cleaners, Hand	55T62	43	1.5	2	44	42	15.2
All Other Skilled Craft and Kindred Workers	59001	21	0.7	NA	-	-	NA
All Other Operatives and Semiskilled Worker	59002	156	5.3	NA	-	-	NA
All Other Laborers and Unskilled Workers	59003	207	7.0	NA	-	-	NA
CLERICAL OCCUPATIONS	60000	303	10.3				
Keypunch Operators	61107	12	0.4	12	13	11	10.9
All Other Office Machine Operators	61199	11	0.4	NA	-	-	NA
Accounting Clerks	61301	22	0.7	9	24	20	23.9
Bookkeepers, Hand	61307	29	1.0	7	31	27	32.6
General Clerks, Office	61333	41	1.4	5	43	39	32.6

See page 184 for explanation of footnotes.

STAFFING PATTERNS

FOOD AND KINDRED PRODUCTS

(SIC 20)

OCCUPATIONAL TITLE	OES CODE	JUNE 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Secretaries	61368	24	0.8	8	26	22	21.7
All Other Office Clerical Workers	61900	55	1.9	NA	-	-	NA
Production Clerks and/or Coordinators	62003	11	0.4	3	11	11	8.7
Shipping Packers	62004	52	1.8	10	57	47	23.9
Shipping and/or Receiving Clerks	62005	29	1.0	7	31	27	26.1
Stock Clerks, Stockroom, Warehouse or Storage Yard	62008	13	0.4	7	14	12	13.0
All Other Plant Clerical Workers	62900	4	0.1	NA	-	-	NA
SALES OCCUPATIONS	70000	98	3.3				
Sales Representatives, Sales Agents, and/or Sales Associates	71000	62	2.1	5	65	59	43.5
Sales Clerks	72002	36	1.2	11	40	32	17.4

See page 184 for explanation of footnotes.

STAFFING PATTERNS

FOOD AND KINDRED PRODUCTS

(SIC 20)

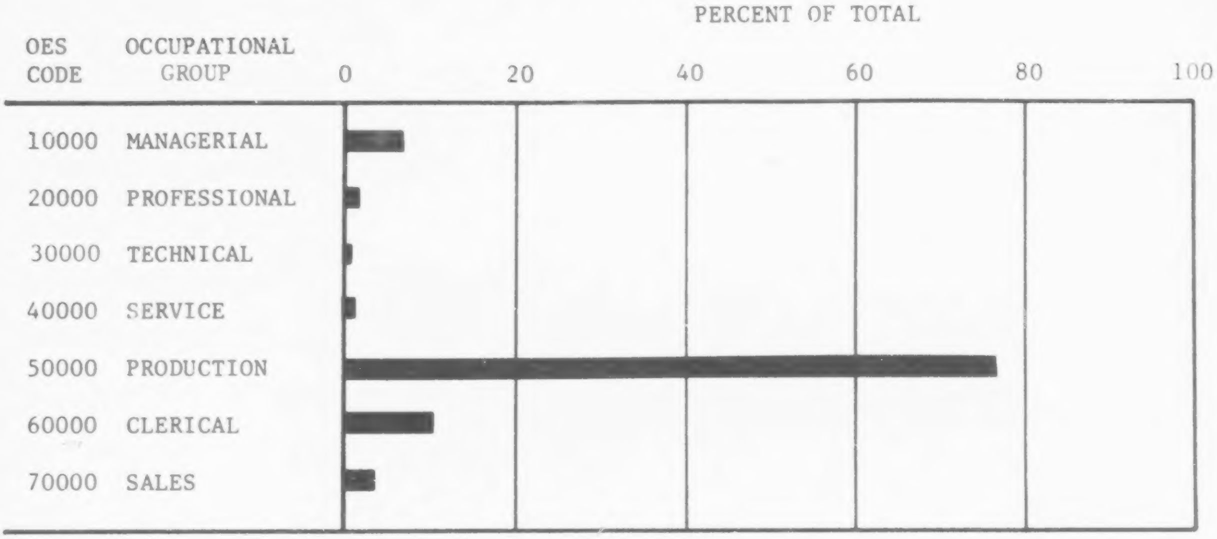
Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

Bakers
Biological Science Technicians
Biological Scientists
Bookkeeping and/or Billing Machine Operators
Butchers, All-Around
Carpenters
Cashiers
Chemists
Clerical Supervisors, Office or Plant
Computer Operators
Computer Programmers
Conveyor Operators or Tenders
Cooler Room Workers, Meat
Cooling Machine Operators
Depositors, Food
Dividing Machine Operators and/or Dough Brake Machine Operators
Dry Curers
Electricians
Feed Pellet Mill Operators
Fermentation Operators
File Clerks
Food Service Workers
Food Shapers, Hand
Guards and Doorkeepers
Helpers, Trades
Industrial Engineers
Inspectors
Loaders, Malt House
Machinists
Mechanical Engineers
Nurses, Professional
Oilers
Order Clerks
Painters, Maintenance
Payroll and/or Timekeeping Clerks
Personnel Clerks
Personnel and Labor Relations Specialists
Procurement Clerks
Pumpers
Purchasing Agents and/or Buyers
Refrigeration Mechanics and/or Air Conditioning Mechanics
Retort Operators
Rolling Machine Operators
Skin Peeling Machine Operators
Smokers
Statistical Clerks
Still Operators
Switchboard Operators
Switchboard Operators/Receptionists
Typists
Weighers, Record Keeping

PERCENT DISTRIBUTION OF MAJOR OCCUPATIONAL GROUPS

FOOD AND KINDRED PRODUCTS

(SIC 20)



ANNUAL AVERAGE EMPLOYMENT (in thousands)*

1972-1980

FOOD AND KINDRED PRODUCTS

(SIC 20)

	NEW HAMPSHIRE		UNITED STATES	
YEAR	ANNUAL AVERAGE	PERCENT CHANGE	ANNUAL AVERAGE	PERCENT CHANGE
1972	3.0	-	1,745.2	-
1973	2.9	- 3.3	1,714.8	- 1.7
1974	2.9	0	1,706.7	- 0.5
1975	2.9	0	1,657.5	- 2.9
1976	3.0	3.4	1,688.9	1.9
1977	3.2	6.7	1,711.0	1.3
1978	3.2	0	1,724.1	0.8
1979	3.1	- 3.1	1,728.1	0.2
1980**	3.1	0	1,690.4	- 2.2

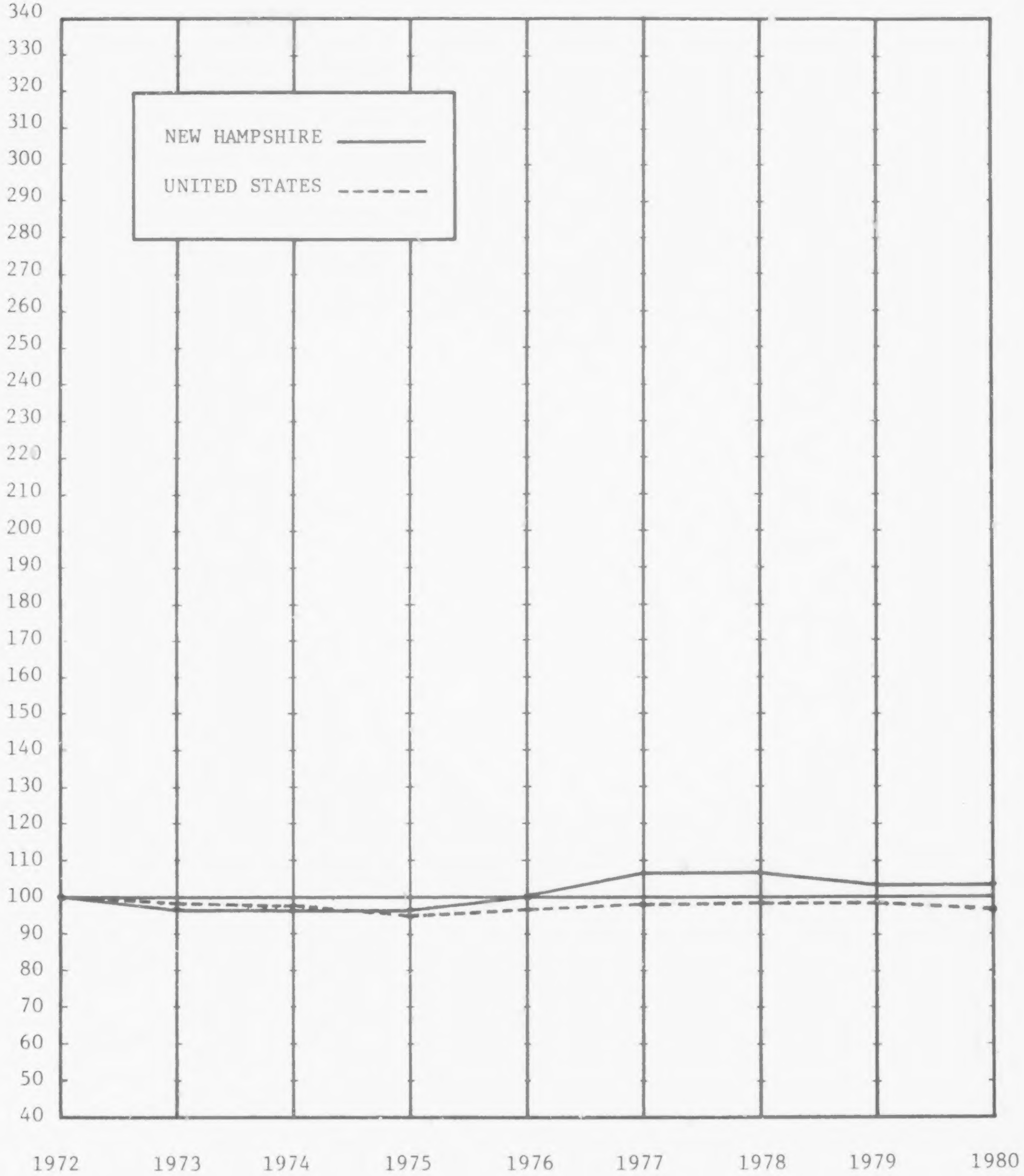
* Nonagricultural Employment

** Employment for 1980 based on preliminary data

INDEXES OF EMPLOYMENT
NEW HAMPSHIRE AND THE UNITED STATES 1972 - 1980
1972 = 100

FOOD AND KINDRED PRODUCTS

(SIC 20)



OCCUPATIONAL EMPLOYMENT
NONDURABLE GOODS MANUFACTURING
TEXTILE MILL PRODUCTS
(SIC 22)

This major group includes establishments engaged in performing any of the following operations: (1) preparation of fiber and subsequent manufacturing of yarn, thread, braids, twine and cordage; (2) manufacturing broad woven fabric, narrow woven fabric, knit fabric, and carpets and rugs from yarn; (3) dyeing and finishing fiber, yarn, fabric, and knit apparel; (4) coating, waterproofing, or otherwise treating fabric; (5) the integrated manufacture of knit apparel and other finished articles from yarn; and (6) the manufacture of felt goods, lace goods, nonwoven fabrics, and miscellaneous textiles.

During the survey month of April 1980 there were 4,885 wage and salary workers employed in the textile mill products industry. This was only a slight decrease from the same period three years ago when an estimated 4,934 workers were employed in this group. The largest group of workers in a single activity were employed as weavers followed by those employed as spinners, frame. These occupations combined to make up 12 percent of all workers in this industry. Over 81 percent of the workers were engaged in production related activities.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	APRIL 1980 ESTIMATED EMPLOYMENT
1	55D48	Weavers	349
2	55P74	Spinners, Frame	238
3	10000	Managers and Officers	203
4	55F62	Card Tenders, Comber Tenders, and/or Card Strippers	189
5	55B29	Supervisors, Nonworking	181
6	55B58	Inspectors	169
7	55C76	Sewing Machine Operators, Regular Equipment -- Garment	140
8	55T66	Cutters, Machine	116
9	51043	Mechanics, Maintenance	106
10	51062	Loom Fixers	96

THE SIX MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	10000	Managers and Officers	91.4
2	62005	Shipping and/or Receiving Clerks	68.6
3	41000	Janitors, Porters, and Cleaners	62.9
	61368	Secretaries	62.9
5	55B29	Supervisors, Nonworking	54.3

STAFFING PATTERNS

TEXTILE MILL PRODUCTS

(SIC 22)

OCCUPATIONAL TITLE	OES CODE	APRIL 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
TOTAL ALL OCCUPATIONS		4,885	100.0				
MANAGERS AND OFFICERS	10000	203	4.2	9	221	185	91.4
PROFESSIONAL OCCUPATIONS	20000	68	1.4				
All Engineers	21000	12	0.2	NA	-	-	NA
Accountants and Auditors	25401	27	0.6	28	35	19	31.4
All Other Professional Workers	29000	29	0.6	NA	-	-	NA
TECHNICAL OCCUPATIONS	30000	30	0.6				
All Science Technicians	33000	14	0.3	NA	-	-	NA
All Other Technicians	39000	16	0.3	NA	-	-	NA
SERVICE OCCUPATIONS	40000	139	28				
Janitors, Porters, and Cleaners	41000	78	1.6	11	87	69	62.9
Guards and Doorkeepers	42000	12	0.2	29	15	9	8.6
All Food Service Workers	43000	2	*	NA	-	-	NA
All Other Service Workers	49000	47	1.0	NA	-	-	NA
PRODUCTION OCCUPATIONS	50000	3,991	81.7				
Mechanics, Maintenance	51043	106	2.2	7	113	99	42.9
Knitting Machine Fixers	51061	34	0.7	2	35	33	17.1
Loom Fixers	51062	96	2.0	12	108	84	31.4
Section Repairers and Setters	51065	35	0.7	7	37	33	17.1
All Other Mechanics and Repairers	51900	40	0.8	NA	-	-	NA
Truck Drivers	54000	12	0.2	37	16	8	17.1
Drawer-in, Hand	55A91	17	0.3	30	22	12	11.4
Electricians	55B12	23	0.5	9	25	21	34.3

See page 184 for explanation of footnotes.

STAFFING PATTERNS

TEXTILE MILL PRODUCTS

(SIC 22)

OCCUPATIONAL TITLE	OES CODE	APRIL 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Supervisors, Nonworking	55B29	181	3.7	11	201	161	54.3
Industrial Truck Operators	55B57	15	0.3	10	16	14	17.1
Inspectors	55B58	169	3.5	18	199	139	45.7
Machinists	55B84	26	0.5	13	29	23	20.0
Maintenance Repairers, General Utility	55B86	61	1.2	16	71	51	45.7
Helpers, Trade	55B87	33	0.7	4	34	32	14.3
Millwrights	55B95	11	0.2	0	11	11	11.4
Oilers	55C06	11	0.2	31	14	8	14.3
Order Fillers	55C08	44	0.9	6	47	41	20.0
Production Packagers, Hand or Machine	55C39	31	0.6	7	33	29	20.0
Sewing Machine Operators, Regular Equipment--Garment	55C76	140	2.9	2	143	137	14.3
Sewing Machine Operators, Special Equipment and/or Automatic Equipment--Garment	55C77	28	0.6	7	30	26	8.6
Sewing Machine Operators, Regular Equipment--Nongarment	55C78	14	0.3	26	18	10	5.7
Sewing Machine Operators, Special Equipment and/or Automatic Equipment--Nongarment	55C79	17	0.3	0	17	17	8.6
Spooler Operators, Automatic	55C88	15	0.3	0	15	15	8.6
Stationary Boiler Firers	55C90	13	0.3	0	13	13	11.4
Weavers	55D48	349	7.1	13	394	304	34.3
Battery Loaders	55E54	28	0.6	19	33	23	14.3
Beam Warper Tenders, Automatic and/or Beamers	55E58	32	0.7	20	38	26	17.1
Blending Machine Operators	55E84	21	0.4	6	22	20	14.3
Bobbin Winders, Machine or Sewing Machine	55E90	15	0.3	0	15	15	2.9

See page 184 for explanation of footnotes.

STAFFING PATTERNS

TEXTILE MILL PRODUCTS

(SIC 22)

OCCUPATIONAL TITLE	OES CODE	APRIL 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Burlers	55F30	74	1.5	0	74	74	11.4
Card Tenders, Comber Tenders, and/or Card Strippers	55F62	189	3.9	5	198	180	37.1
Drawing Frame Tenders and/or Gill Box Tenders	55F87	40	0.8	23	49	31	5.7
Cloth Finishing Range Tenders, Middle.	55G33	45	1.0	0	45	45	8.6
Cloth Finishing Range Operators, Chief	55G34	10	0.2	0	10	10	5.7
Creelers, Yarn	55G98	42	0.9	22	51	33	25.7
Cutters, Portable Machine	55H25	41	0.8	46	60	22	11.4
Doffers	55H79	60	1.2	18	71	49	22.9
Dresser Tenders	55H90	17	0.3	0	17	17	11.4
Dye Range Operators and Spiral Dye Beck Tenders	55I11	26	0.5	0	26	26	5.7
Dye Reel Operators, Jiggers, and/or Padding Machine Operators	55I12	17	0.3	0	17	17	8.6
Dye Tank Tenders, Nets; Warp Dyeing Vat Tenders; and/or Knit Goods Yarn Dyers, Vat	55I13	14	0.3	39	19	9	8.6
Harness Builders, Loom Changers and/or Loom Starters	55J78	19	0.4	0	19	19	8.6
Knitting Machine Operators	55K46	87	1.8	6	92	82	20.0
Menders, Cloth	55L18	22	0.5	0	22	22	5.7
Napper Tenders	55L73	26	0.5	2	27	25	11.4
Needle Felt Making Machine Operators and/or Needle Loom Operators	55L74	43	0.9	28	55	31	5.7
Picker Tenders	55M15	35	0.7	14	40	30	11.4
Quilling Machine Operators, Automatic or Non-Automatic	55M88	44	0.9	14	50	38	17.1

See page 184 for explanation of footnotes.

STAFFING PATTERNS

TEXTILE MILL PRODUCTS

(SIC 22)

OCCUPATIONAL TITLE	OES CODE	APRIL 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Smash, Hand	55P54	14	0.3	40	20	8	11.4
Spinners, Frame	55P74	238	4.9	2	243	233	17.1
Twister Tenders	55R03	40	0.8	24	50	30	8.6
Warp Typing Machine Tenders	55R24	20	0.4	14	23	17	25.7
Winder Operators, Automatic	55R38	45	1.0	33	60	30	14.3
Yarn Winders	55R53	49	1.0	12	55	43	11.4
Folders, Hand	55S81	21	0.4	0	21	21	2.9
Cutters, Machine	55T66	116	2.4	35	157	75	31.4
Drier Operators, Textiles and Rugs	55T69	21	0.4	16	24	18	11.4
Mixers and/or Blenders, Chemicals and Chemical Products	57031	27	0.6	18	32	22	17.1
All Other Skilled Craft and Kindred Workers	59001	40	0.8	NA	-	-	NA
All Other Operatives and Semiskilled Workers	59002	498	10.2	NA	-	-	NA
All Other Laborers and Unskilled Workers	59003	394	8.1	NA	-	-	NA
CLERICAL OCCUPATIONS	60000	434	8.9				
Keypunch Operators	61107	20	0.4	27	25	15	14.3
All Other Office Machine Operators	61199	29	0.6	NA	-	-	NA
Accounting Clerks	61301	16	0.3	7	17	15	20.0
General Clerks, Office	61333	73	1.5	17	85	61	51.4
Order Clerks	61350	16	0.3	17	19	13	14.3
Payroll and/or Timekeeping Clerks	61351	11	0.2	7	12	10	22.9
Secretaries	61368	45	1.0	13	51	39	62.9
Switchboard Operator/ Receptionists	61377	10	0.2	5	10	10	22.9
Clerical Supervisors, Office or Plant	61396	14	0.3	16	16	12	8.6
All Other Office Clerical Workers	61900	44	0.9	NA	-	-	NA

See page 184 for explanation of footnotes.

STAFFING PATTERNS

TEXTILE MILL PRODUCTS

(SIC 22)

OCCUPATIONAL TITLE	OES CODE	APRIL 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Production Clerks and/or Coordinators	62003	11	0.2	3	11	11	14.3
Shipping Packers	62004	43	0.9	9	47	39	48.6
Shipping and/or Receiving Clerks	62005	43	0.9	10	47	39	68.6
Stock Clerks, Stockroom, Warehouse or Storage Yard	62008	39	0.8	5	41	37	31.4
All Other Plant Clerical Workers	62900	20	0.4	NA	-	-	NA
SALES OCCUPATIONS	70000	20	0.4				
Sales Representatives, Sales Agents, and/or Sales Associates	71000	16	0.3	43	23	9	11.4
All Other Sales Workers	79000	4	0.1	NA	-	-	NA

* Less than 0.05 percent

See page 184 for explanation of footnotes.

STAFFING PATTERNS

TEXTILE MILL PRODUCTS

(SIC 22)

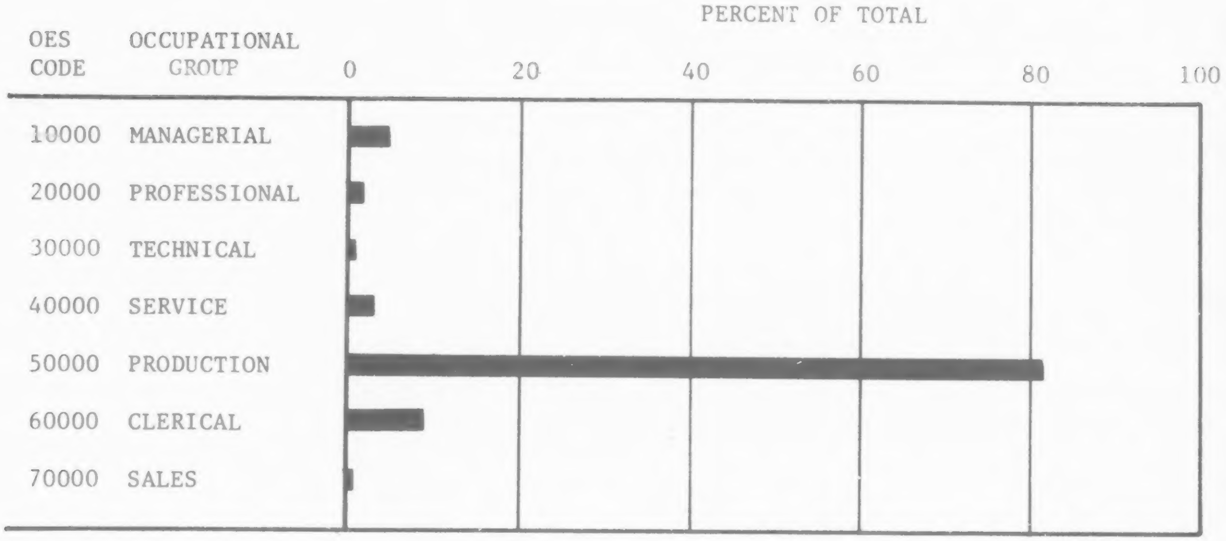
Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

Autoclave Operators
Beam Dyer Operators and/or Package Dyeing Machine Operators
Bleach Range Operators and/or Knit Goods Bleachers
Boarding Machine Operators Hosiery
Bobbin Sorters
Bookkeepers, Hand
Bookkeeping and/or Billing Machine Operators
Calender Operators, Cloth Pressing
Card Grinders
Carpenters
Chemists
Cloth Feeders and/or Back Tenders
Cloth or Carpet Winders
Cloth Shrinking Machine Operators
Cloth Trimmers, Machine and/or Shearing Machine Operators
Coating Machine Operators
Colorists
Computer Operators
Computer Programmers
Delivery and/or Route Workers
Designers
Drawing-In Machine Tenders
Dye Tub Operators, Random Dyers, and/or Spot Dyeing and Machine Winding Operators
Engineering Technicaians
Folding Machine Operators
Food Service Workers
Harness Placers
Industrial Engineers
Instructors, Apparel and Textile Machines
Laminating Machine Operators, Furniture
Mechanical Engineers
Mechanics, Sewing Machine
Nurses, Professional
Opener Tenders and/or Waste Machine Tenders
Painters, Maintenance
Personnel and Labor Relations Specialists
Personnel Clerks
Plumbers and/or Pipefitters
Pressers, Hand
Pressers, Machine
Procurement Clerks
Purchasing Agents and/or Buyers
Receptionists
Sales Clerks
Skein Yarn Dyers
Statistical Clerks
Systems Analysts, Electronic Data Processing
Switchboard Operators
Tenter Frame Operators
Testers
Threaders, Knit Goods
Typists
Washers, Synthetic Fibers
Weighers, Recordkeeping

PERCENT DISTRIBUTION OF MAJOR OCCUPATIONAL GROUPS

TEXTILE MILL PRODUCTS

(SIC 22)



ANNUAL AVERAGE EMPLOYMENT (in thousands)*

1972-1980

TEXTILE MILL PRODUCTS

(SIC 22)

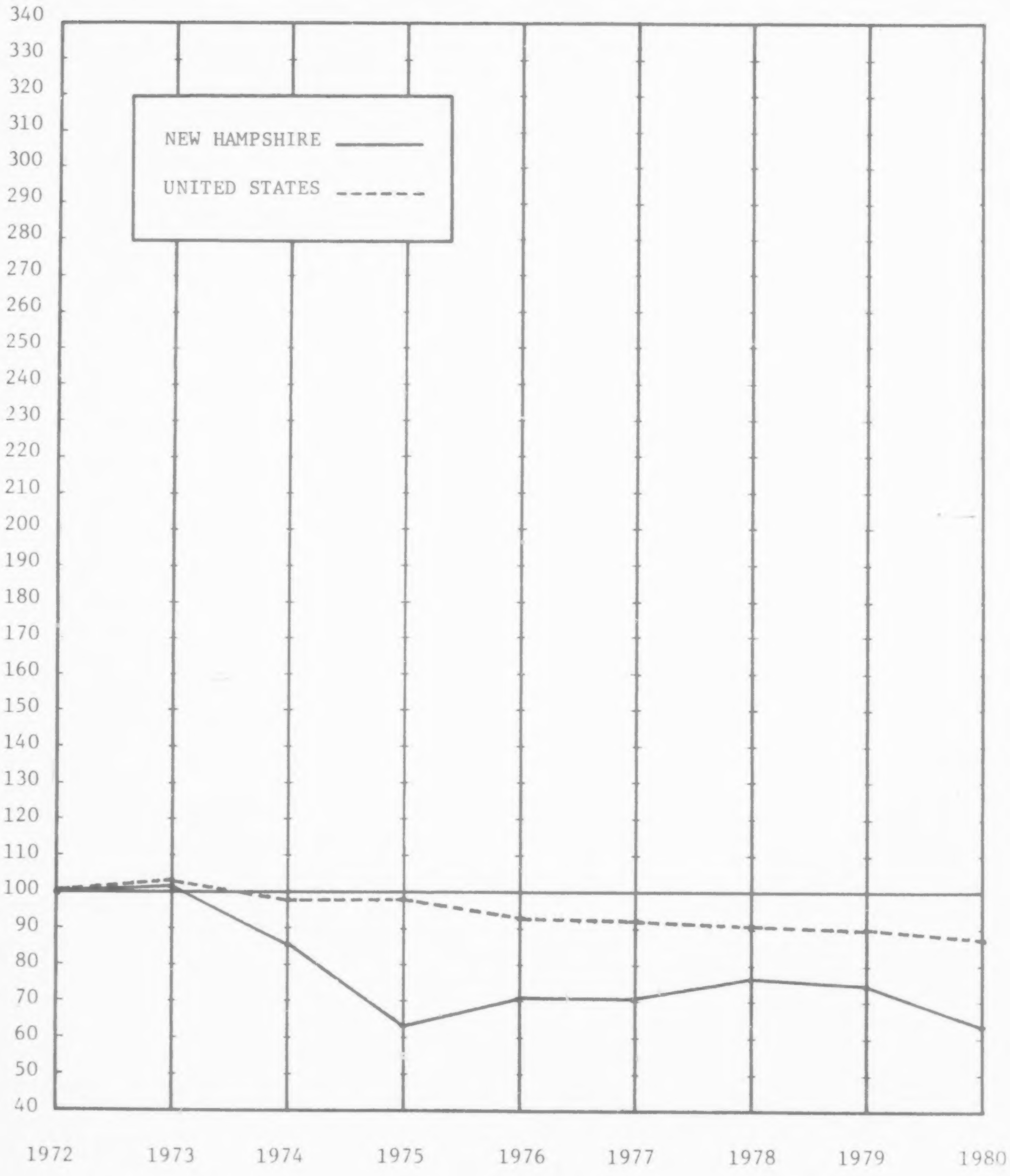
	NEW HAMPSHIRE		UNITED STATES	
YEAR	ANNUAL AVERAGE	PERCENT CHANGE	ANNUAL AVERAGE	PERCENT CHANGE
1972	7.1	-	985.7	-
1973	7.2	1.4	1,009.8	2.4
1974	6.1	- 15.3	965.0	- 4.4
1975	4.5	- 26.2	967.9	0.3
1976	5.0	11.1	918.8	- 5.1
1977	5.0	0	910.2	- 0.9
1978	5.4	8.0	899.1	- 1.2
1979	5.3	- 1.9	888.5	- 1.2
1980**	4.5	- 15.1	863.8	- 2.8

* Nonagricultural Employment

** Employment for 1980 based on preliminary data

INDEXES OF EMPLOYMENT
NEW HAMPSHIRE AND THE UNITED STATES 1972 - 1980
1972 = 100

TEXTILE MILL PRODUCTS
(SIC 22)



OCCUPATIONAL EMPLOYMENT
NONDURABLE GOODS MANUFACTURING
APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS
(SIC 23)

This major group, known as the cutting-up and needle trades, includes establishments producing clothing and fabricating products by cutting and sewing purchased woven or knit textile fabrics and related materials such as leather, rubberized fabrics, plastics and furs.

There were 2,880 wage and salary workers employed in the apparel industry during the survey month of May 1980. This represents a drop of 161 workers, or a little over five percent, from a similar survey during the same survey period of 1977. The production and production related jobs employed almost 80 percent of the total workers in this major group. The three leading production occupations, sewing machine operators (regular) with 1,242 workers, inspectors with 97 workers, and sewing machine operators (automatic) with 89 workers combined to make up almost 50 percent of the work force in the apparel industry.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	MAY 1980 ESTIMATED EMPLOYMENT
1	55C76	Sewing Machine Operators, Regular Equipment -- Garment	1,242
2	10000	Managers and Officers	145
3	55B58	Inspectors	97
4	55C77	Sewing Machine Operators, Special Equipment and/or Automatic Equipment -- Garment	89
5	55Q62	Thread Trimmers	75
6	55C78	Sewing Machine Operators, Regular Equipment -- Nongarment	57
7	55R46	Work Distributors	51
8	62004	Shipping Packers	48
9	55B29	Supervisors, Nonworking	47
	55F29	Bundlers	47

THE SIX MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	10000	Managers and Officers	83.8
2	55C76	Sewing Machine Operators, Regular Equipment -- Garment	81.1
3	62004	Shipping Packers	48.6
4	55F29	Bundlers	45.9
5	41000	Janitors, Porters, and Cleaners	43.2
	51070	Mechanics, Sewing Machine	43.2

STAFFING PATTERNS

APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS

(SIC 23)

OCCUPATIONAL TITLE	OES CODE	MAY 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
TOTAL ALL OCCUPATIONS		2,880	100.0				
MANAGERS AND OFFICERS	10000	145	5.0	2	148	142	83.8
PROFESSIONAL OCCUPATIONS	20000	40	1.4				
All Engineers	21000	7	0.2	NA	-	-	NA
Accountants and Auditors	25401	19	0.7	4	20	18	16.2
All Other Professional Workers	29000	14	0.5	NA	-	-	NA
TECHNICAL OCCUPATIONS	30000	9	0.3				
SERVICE OCCUPATIONS	40000	40	1.4				
Janitors, Porters, and Cleaners	41000	27	0.9	5	28	26	43.2
All Other Service Workers	49000	13	0.5	NA	-	-	NA
PRODUCTION OCCUPATIONS	50000	2,300	79.8				
Mechanics, Sewing-Machine	51070	31	1.1	5	33	29	43.2
All Other Mechanics and Repairers	51900	1	*	NA	-	-	NA
Pressers, Hand	53014	32	1.1	15	37	27	24.3
Pressers, Machine	53015	44	1.5	18	52	36	29.7
Truck Drivers	54000	13	0.5	6	14	12	18.9
Supervisors, Nonworking	55B29	47	1.6	9	51	43	40.5
Inspectors	55B58	97	3.3	13	110	84	29.7
Instructors, Apparel and Textile Machines	55B65	19	0.7	10	21	17	16.2
Maintenance Repairers, General Utility	55B86	10	0.3	8	11	9	16.2
Order Fillers	55C08	20	0.7	5	21	19	10.8
Production Packagers, Hand or Machine	55C39	22	0.8	20	26	18	13.5

See page 184 for explanation of footnotes.

STAFFING PATTERNS

APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS

(SIC 23)

OCCUPATIONAL TITLE	OES CODE	MAY 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Sewing Machine Operators, Regular Equipment -- Garment	55C76	1,242	43.1	2	1,267	1,217	81.1
Sewing Machine Operators, Special Equipment and/or Automatic Equipment-- Garment	55C77	89	3.1	23	109	69	29.7
Sewing Machine Operators, Regular Equipment-- Nongarment	55C78	57	2.0	37	78	36	10.8
Bundlers	55F29	47	1.6	7	50	44	45.9
Cutters, Portable Machine	55H25	20	0.7	9	22	18	27.0
Fusing Machine Operators	55J20	16	0.6	13	18	14	16.2
Garment Repairers	55J24	12	0.4	13	14	10	13.5
Knitting Machine Operators	55K46	31	1.1	2	32	30	5.4
Patternmakers	55M08	10	0.3	7	11	9	16.2
Sample Makers	55N51	12	0.4	5	13	11	18.9
Slitting Machine Operators	55P49	12	0.4	7	13	11	10.8
Spreaders	55P48	40	1.4	7	43	37	35.1
Thread Trimmers	55Q62	75	2.6	11	83	67	29.7
Work Distributors	55R46	51	1.8	12	57	45	40.5
Markers	55S77	15	0.5	11	17	13	21.6
Cutters, Hand	55S78	26	0.9	7	28	24	29.7
Turners	55S80	22	0.8	9	24	20	27.0
Cutters, Machine	55T66	10	0.3	7	11	9	10.8
All Other Skilled Craft and Kindred Workers	59001	26	0.9	NA	-	-	NA
All Other Operatives and Semiskilled Workers	59002	112	3.9	NA	-	-	NA
All Other Laborers and Unskilled Workers	59003	39	1.4	NA	-	-	NA
CLERICAL OCCUPATIONS	60000	304	10.6				
All Office Machine Operators	61100	12	0.4	NA	-	-	NA
Accounting Clerks	61301	23	0.8	4	24	22	18.9

See page 184 for explanation of footnotes.

STAFFING PATTERNS

APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS

(SIC 23)

OCCUPATIONAL TITLE	OES CODE	MAY 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Bookkeepers, Hand	61307	15	0.5	7	16	14	21.6
General Clerks, Office	61333	31	1.1	10	34	28	35.1
Payroll and/or Timekeeping Clerks	61351	28	1.0	5	29	27	29.7
Secretaries	61368	13	0.5	8	14	12	18.9
Typists	61392	12	0.4	0	12	12	2.7
All Other Office Clerical Workers	61900	60	2.1	NA	-	-	NA
Production Clerks and/or Coordinators	62003	13	0.5	14	15	11	21.6
Shipping Packers	62004	48	1.6	7	51	45	48.6
Shipping and/or Receiving Clerks	62005	30	1.0	8	32	28	32.4
Stock Clerks, Stockroom, Warehouse or Storage Yard	62008	11	0.4	4	11	11	10.8
All Other Plant Clerical Workers	62900	8	0.3	NA	-	-	NA
SALES OCCUPATIONS	70000	42	1.5				
Sales Representatives, Sales Agents, and/or Sales Associates	71000	19	0.7	9	21	17	18.9
Sales Clerks	72002	23	0.8	1	23	23	8.1

* Less than 0.05 percent.

See page 184 for explanation of footnotes.

STAFFING PATTERNS

APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS

(SIC 23)

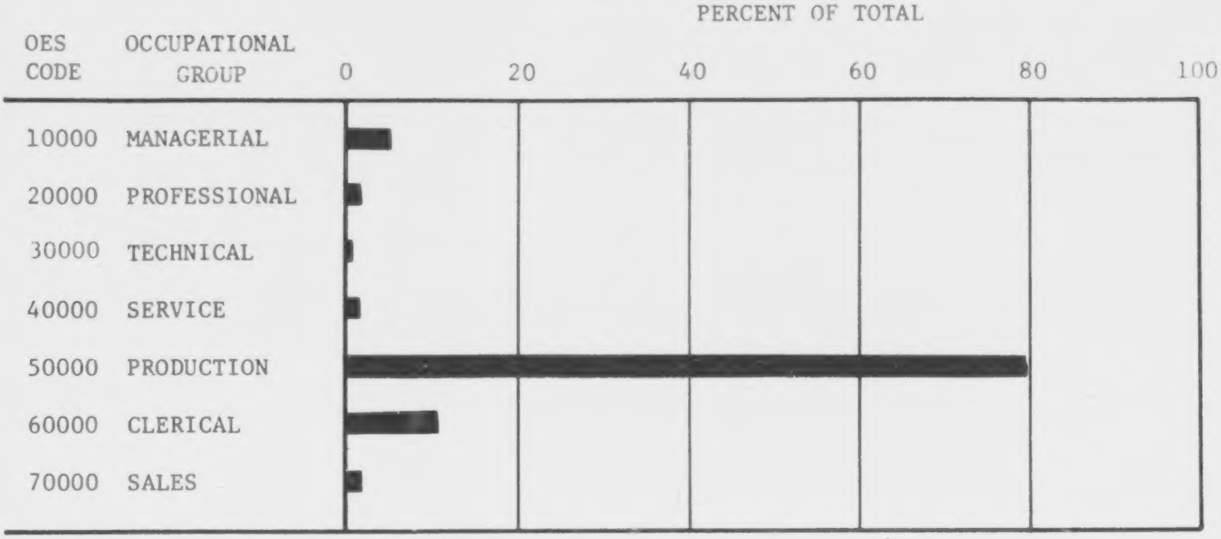
Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

- Belt Makers, Apparel
- Bookkeeping and/or Billing Machine Operators
- Carpenters
- Clerical Supervisors, Office or Plant
- Computer Operators
- Computer Programmers
- Delivery and/or Route Workers
- Designers
- Die Cutters and/or Clicking Machine Operators
- Drapers
- Electricians
- Engineering Technicians
- File Clerks
- Folders, Hand
- Folding Machine Operators
- Food Service Workers
- Furriers
- Guards and Doorkeepers
- Hand Sewers
- Helpers, Trades
- Industrial Engineers
- Industrial Truck Operators
- Keypunch Operators
- Mechanical Engineers
- Mechanics Maintenance
- Oilers
- Order Clerks
- Painters, Maintenance
- Pattern Cutters
- Personnel and Labor Relations Specialists
- Personnel Clerks
- Procurement Clerks
- Purchasing Agents and/or Buyers
- Screen or Stenoil Printers and/or Setters
- Sewing Machine Operators, Special and/or Automatic Equipment-Nongarment
- Shade Ticket Markers
- Shapers and Pressers
- Shuttlers, Embrodery
- Soabar Operators
- Spot Cleaners
- Statistical Clerks
- Stenographers
- Supervisors, Nonworking--Service Only
- Switchboard Operators
- Switchboard Operator - Receptionists
- Systems Analysts, Electronic Data Processing
- Testers

PERCENT DISTRIBUTION OF MAJOR OCCUPATIONAL GROUPS

APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS

(SIC 23)



ANNUAL AVERAGE EMPLOYMENT (in thousands)*

1972-1980

APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS

(SIC 23)

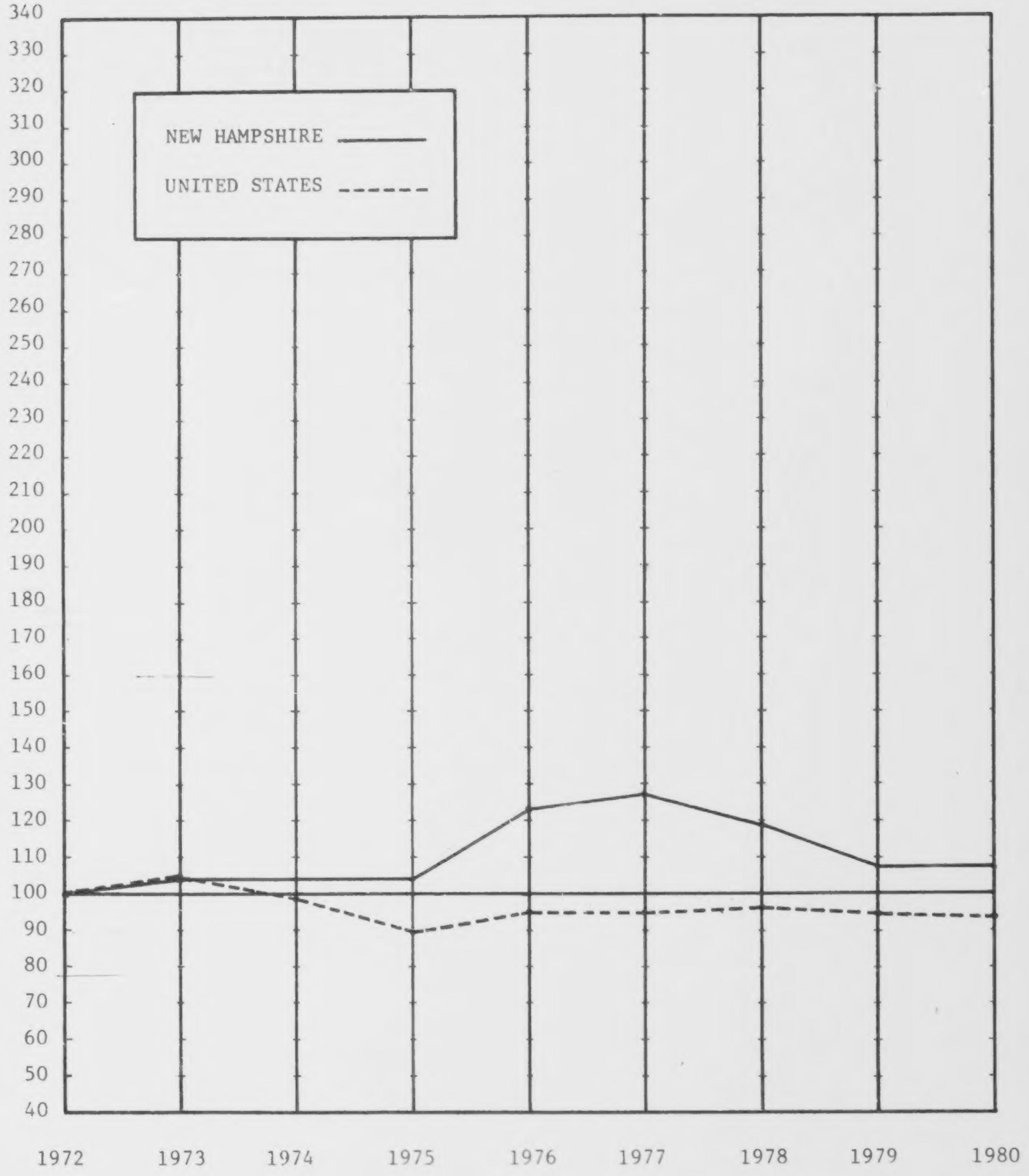
	NEW HAMPSHIRE		UNITED STATES	
YEAR	ANNUAL AVERAGE	PERCENT CHANGE	ANNUAL AVERAGE	PERCENT CHANGE
1972	2.6	-	1,382.7	-
1973	2.7	3.8	1,438.1	4.0
1974	2.7	0	1,362.6	- 5.2
1975	2.7	0	1,243.3	- 8.8
1976	3.2	18.5	1,318.1	6.0
1977	3.3	3.1	1,316.3	- 0.1
1978	3.1	- 6.1	1,332.3	1.2
1979	2.8	- 9.7	1,312.5	- 1.5
1980**	2.8	0	1,296.5	- 1.2

* Nonagricultural Employment
** Employment for 1980 based on preliminary data.

INDEXES OF EMPLOYMENT
NEW HAMPSHIRE AND THE UNITED STATES 1972 - 1980
1972 = 100

APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS

(SIC 23)



OCCUPATIONAL EMPLOYMENT
DURABLE GOODS MANUFACTURING
PAPER AND ALLIED PRODUCTS
(SIC 26)

This major group includes establishments primarily engaged in the manufacturing of pulps from wood and other cellulose fibers, and from rags; the manufacturing of paper and paperboard; and the manufacturing of paper and paperboard into converted products such as paper coated off the paper machine, paper bags, paper boxes, and envelopes.

There were 6,469 wage and salary workers employed in the paper and allied products industries during the survey month of April 1980 which represents an increase of 206 jobs or a little more than 3 percent over the estimated employment during the same month of 1977. Production and production related occupations comprised almost 82 percent of all jobs in this industry. The three leading single occupations, envelope machine operators with 314 workers, production packagers with 279 workers, and supervisors, nonworking with 219 workers combined to make up over 12 percent of the total employment in these paper industries.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	APRIL 1980 ESTIMATED EMPLOYMENT
1	55I34	Envelope Machine Operators	314
2	55C39	Production Packagers, Hand or Machine	279
3	55B29	Supervisors, Nonworking	219
4	55B86	Maintenance Repairers, General Utility	210
5	10000	Managers and Officers	181
6	55T66	Cutters, Machine	151
7	55B95	Millwrights	144
8	54000	Truck Drivers	143
9	55E32	Back Tenders	128
10	55R95	Fourth Hands and/or Fifth Hands, Paper Machine	119

THE EIGHT MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	10000	Managers and Officers	90.6
2	41000	Janitors, Porters, and Cleaners	46.9
	54000	Truck Drivers	46.9
	62005	Shipping and/or Receiving Clerks	46.9
5	51043	Mechanics, Maintenance	40.6
	55B29	Supervisors, Nonworking	40.6
	61333	General Clerks, Office	40.6
	61368	Secretaries	40.6

STAFFING PATTERNS

PAPER AND ALLIED PRODUCTS

(SIC 26)

OCCUPATIONAL TITLE	OES CODE	APRIL 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
TOTAL ALL OCCUPATIONS		6,469	100.0				
MANAGERS AND OFFICERS	10000	181	2.8	24	224	138	90.6
PROFESSIONAL OCCUPATIONS	20000	197	3.0				
Industrial Engineers	21006	79	1.2	19	94	64	28.1
Mechanical Engineers	21008	27	0.4	10	30	24	18.8
All Other Engineers	21900	16	0.2	NA	-	-	NA
Chemists	22201	11	0.2	18	13	9	15.6
Purchasing Agents and/or Buyers	25300	26	0.4	21	31	21	31.3
Accountants and Auditors	25401	22	0.3	15	25	19	28.1
Personnel and Labor Relations Specialists	25465	10	0.2	8	11	9	15.6
All Other Professional Workers	29000	6	0.1	NA	-	-	NA
TECHNICAL OCCUPATIONS	30000	80	1.2				
All Engineering Technicians	32000	10	0.2	NA	-	-	NA
All Science Technicians	33000	3	*	NA	-	-	NA
All Other Technicians	39000	67	1.0	NA	-	-	NA
SERVICE OCCUPATIONS	40000	145	2.3				
Janitors, Porters, and Cleaners	41000	38	0.6	17	44	32	46.9
Guards and Doorkeepers	42000	70	1.1	13	79	61	28.1
Supervisors, Nonworking--Service Only	44014	17	0.3	9	19	15	9.4
All Other Service Workers	49000	20	0.3	NA	-	-	NA
PRODUCTION OCCUPATIONS	50000	5,298	81.9				
Mechanics, Automotive	51008	14	0.2	0	14	14	6.3
Mechanics, Maintenance	51043	45	0.7	21	54	36	40.6

See page 184 for explanation of footnotes.

STAFFING PATTERNS

PAPER AND ALLIED PRODUCTS

(SIC 26)

OCCUPATIONAL TITLE	OES CODE	APRIL 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
All Other Mechanics and Repairers	51900	3	*	NA	—	—	NA
Truck Drivers	54000	143	2.2	14	163	123	46.9
Carpenters	55A47	11	0.2	15	13	9	12.5
Crane, Derrick, and Hoist Operators	55A82	13	0.2	0	13	13	3.1
Electricians	55B12	72	1.1	3	74	70	28.1
Supervisors, Nonworking	55B29	219	3.4	8	237	201	40.6
Riggers	55B54	19	0.3	0	19	19	6.3
Industrial Truck Operators	55B57	97	1.5	11	108	86	34.4
Inspectors	55B58	36	0.6	14	41	31	9.4
Instrument Repairers	55B62	30	0.5	3	31	29	9.4
Machinists	55B84	34	0.5	10	37	31	12.5
Maintenance Repairers, General Utility	55B86	210	3.2	15	242	178	31.3
Helpers, Trades	55B87	72	1.1	13	81	63	15.6
Millwrights	55B95	144	2.2	3	148	140	21.9
Oilers	55C06	30	0.5	3	31	29	18.8
Order Fillers	55C08	25	0.4	28	32	18	12.5
Painters, Maintenance	55C12	18	0.3	3	19	17	9.4
Plumbers and/or Pipefitters	55C30	70	1.1	0	70	70	6.3
Production Packagers, Hand or Machine	55C39	279	4.3	18	329	229	15.6
Scrappers and/or Strippers, Hand or Machine	55C68	24	0.4	28	31	17	3.1
Stationary Boiler Firers	55C90	27	0.4	12	30	24	18.8
Stationary Engineers	55C91	49	0.8	8	53	45	18.8
Welders and/or Flamecutters	55D46	32	0.5	2	33	31	12.5
Back Tenders	55E32	128	2.0	7	137	119	34.4
Beater Engineers	55E61	44	0.7	11	49	39	25.0
Beaters	55E62	54	0.8	7	58	50	25.0
Cutting and Creasing Press Operators	55H28	15	0.2	28	19	11	3.1
Cylinder Machine Tenders	55H32	52	0.8	14	59	45	15.6

See page 184 for explanation of footnotes.

STAFFING PATTERNS

PAPER AND ALLIED PRODUCTS

(SIC 26)

OCCUPATIONAL TITLE	OES CODE	APRIL 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Die Cutters and/or Clicking Machine Operators	55H64	97	1.5	18	114	80	18.8
Ending Machine Operators	55I29	40	0.6	28	51	29	3.1
Envelope Machine Operators	55I34	314	4.9	25	392	236	3.1
Folding Machine Operators, Paper	55I93	80	1.2	0	80	80	6.3
Fourdrinier Machine Tenders	55J02	60	0.9	8	65	55	15.6
Paper Reel Operators and/or Rewinder Operators	55L97	34	0.5	8	37	31	9.4
Pulp Refiner Operators	55M73	15	0.2	10	16	14	9.4
Pulpers	55M74	24	0.4	25	30	18	18.8
Slitting Machine Operators	55P49	88	1.4	18	104	72	18.8
Taping Machine Operators	55Q51	57	0.9	23	70	44	9.4
Testers	55Q57	73	1.1	4	76	70	15.6
Winders, Paper Machine	55R37	94	1.5	8	102	86	31.3
Wrapping Machine Operators	55R48	38	0.6	17	44	32	9.4
Conveyor Operators or Tenders	55R90	20	0.3	0	20	20	6.3
Fourth Hands and/or Fifth Hands, Paper Machine	55R95	119	1.9	3	123	115	15.6
Chief Operators	55S53	15	0.2	0	15	15	6.3
Cutters, Machine	55T66	151	2.3	20	181	121	15.6
Embossing, Stamping, and/or Marking Machine Operators	55T79	71	1.1	21	86	56	15.6
Mixers and/or Blenders, Chemicals and Chemical Products	57031	41	0.6	5	43	39	18.8
All Other Skilled Craft and Kindred Workers	59001	209	3.2	NA	-	-	NA
All Other Operatives and Semiskilled Workers	59002	620	9.6	NA	-	-	NA

See page 184 for explanation of footnotes.

STAFFING PATTERNS

PAPER AND ALLIED PRODUCTS

(SIC 26)

OCCUPATIONAL TITLE	OES CODE	APRIL 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
All Other Laborers and Unskilled Workers	59003	1,029	15.9	NA	-	-	NA
CLERICAL OCCUPATIONS	60000	483	7.5				
Keypunch Operators	61107	11	0.2	7	12	10	12.5
All Other Office Machine Operators	61199	18	0.3	NA	-	-	NA
Accounting Clerks	61301	19	0.3	17	22	16	21.9
General Clerks, Office	61333	78	1.2	16	90	66	40.6
Order Clerks	61350	23	0.3	27	29	17	21.9
Payroll and/or Timekeeping Clerks	61351	14	0.2	26	18	10	28.1
Secretaries	61368	37	0.6	14	42	32	40.6
Switchboard Operator/ Receptionists	61377	11	0.2	28	14	8	18.8
Clerical Supervisors, Office or Plant	61396	15	0.2	6	16	14	18.8
All Other Office Clerical Workers	61900	56	0.8	NA	-	-	NA
Production Clerks and/or Coordinators	62003	31	0.5	13	35	27	28.1
Shipping Packers	62004	78	1.2	13	88	68	31.3
Shipping and/or Receiving Clerks	62005	36	0.6	27	46	26	46.9
Stock Clerks, Stockroom, Warehouse or Storage Yard	62008	44	0.7	2	45	43	12.5
All Other Plant Clerical Workers	62900	12	0.2	NA	-	-	NA
SALES OCCUPATIONS	70000	85	1.3				

* Less than 0.05 percent

See page 184 for explanation of footnotes.

STAFFING PATTERNS

PAPER AND ALLIED PRODUCTS

(SIC 26)

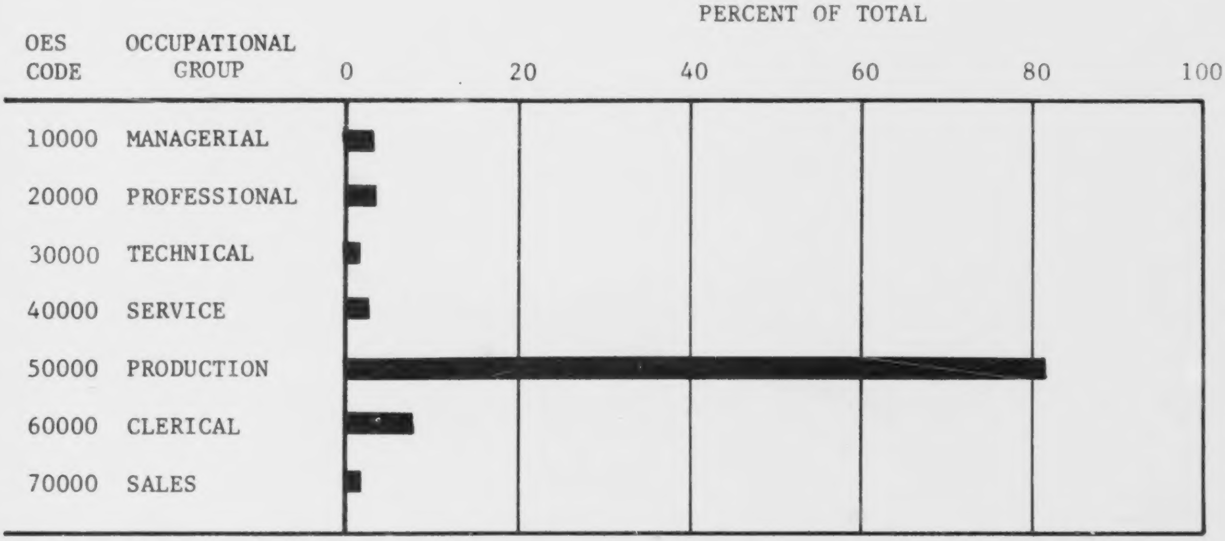
Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

Automatic Assembly Machine Attendants
Bleacher Operators, Pulp
Brown Stock Washers and/or Blow-Pit Operators
Bookkeeping and/or Billing Machine operators
Box Estimators, Paperboard Products
Box Makers, Paperboard
Carton Forming Machine Operators
Chemical Engineers
Chemical Operators A
Chemical Operators B
Chippers
Coating Mixer Tenders
Computer Programmers
Corrugator Knife Operators
Corrugator Operators
Decker Operators
Delivery and/or Route Workers
Die Mounters
Digester Operators
Digester Operator Helpers
Drafters
Electrical and Electronic Engineers
Evaporator Operators, Papermaking
File Clerks
Flexo-Folder-Gluer Operators
Folding Machine Feeders
Food Service Workers
Heavy Equipment Operators
Layboy Tenders
Log Inspectors, Graders, and/or Scalers
Nurses, Professional
Personnel Clerks
Printer-Slotter Feeders
Procurement Clerks
Receptionists
Recovery Operators, Papermaking
Sales Clerks
Science Technicians
Screen or Stencil Printers and/or Setters
Sheet Metal Workers
Stenographers
Supercalender Operators
Switchboard Operators
Systems Analysts, Electronic Data Processing
Tool and Die Makers
Typists
Waxing Machine Operators
Weighers, Record-Keeping

PERCENT DISTRIBUTION OF MAJOR OCCUPATIONAL GROUPS

PAPER AND ALLIED PRODUCTS

(SIC 26)



ANNUAL AVERAGE EMPLOYMENT (in thousands)*

1972-1980

PAPER AND ALLIED PRODUCTS

(SIC 26)

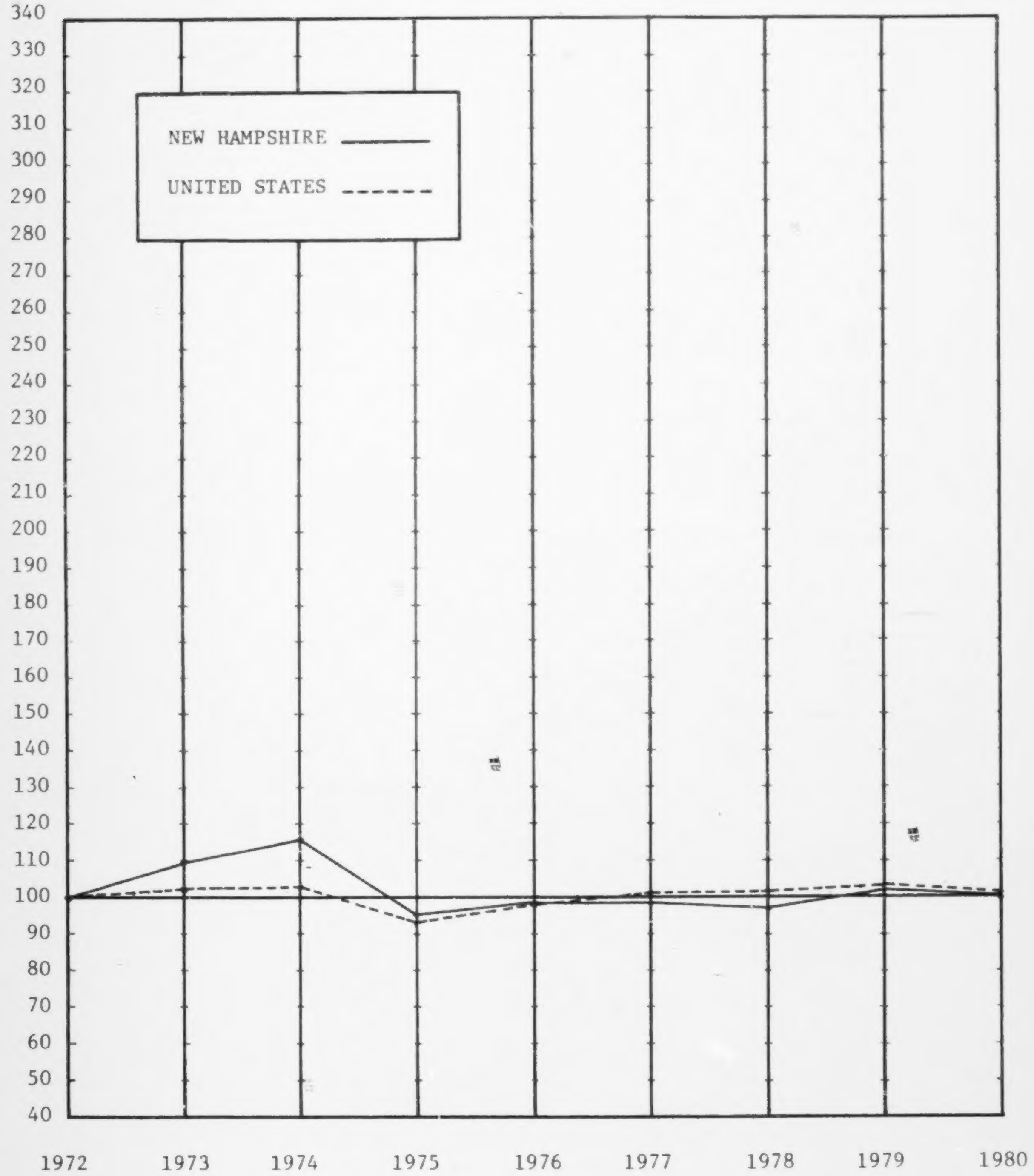
	NEW HAMPSHIRE		UNITED STATES	
YEAR	ANNUAL AVERAGE	PERCENT CHANGE	ANNUAL AVERAGE	PERCENT CHANGE
1972	6.3	-	688.9	-
1973	6.9	9.5	704.6	2.3
1974	7.3	5.8	706.1	0.2
1975	6.0	- 17.8	642.0	- 9.1
1976	6.2	3.3	675.5	5.2
1977	6.2	0	691.6	2.4
1978	6.1	- 1.6	698.7	1.0
1979	6.4	4.9	706.7	1.1
1980**	6.3	- 1.6	693.9	- 1.8

* Nonagricultural Employment

** Employment for 1980 based on preliminary data.

INDEXES OF EMPLOYMENT
NEW HAMPSHIRE AND THE UNITED STATES 1972 - 1980
1972 = 100

PAPER AND ALLIED PRODUCTS
(SIC 26)



OCCUPATIONAL EMPLOYMENT
NONDURABLE GOODS MANUFACTURING
PRINTING, PUBLISHING, AND ALLIED INDUSTRIES
(SIC 27)

This major group includes establishments engaged in printing by one or more of the common processes, such as letterpress, lithography, gravure, or screen; and those establishments which perform services for the printing trade, such as bookbinding, typesetting, engraving, photoengraving, and electrotyping. This major group also includes establishments engaged in publishing newspapers, books, and periodicals, regardless of whether or not they do their own printing.

There were 6,243 wage and salary workers in the printing and publishing industries during the survey month of May 1980. This represents an increase of 1,403 workers, or a 29 percent growth in employment, from the same survey period three years ago. The largest group of workers in this industry were engaged in production and production related activities and comprised over 58 percent of the total work force. The three most dominate occupations, managers and officers with 589 workers, offset lithographic press operators with 571 workers, and production packagers with 291 workers combined to make up over 23 percent of all employees in this industry.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	MAY 1980 ESTIMATED EMPLOYMENT
1	10000	Managers and Officers	589
2	55D56	Offset Lithographic Press Operators, Sheet, Roll or Web Fed	571
3	55C39	Production Packagers, Hand or Machine	291
4	71000	Sales Representatives, Sales Agents, and/or Sales Associates	279
5	25476	Reporters and Correspondents	183
6	55T82	Bindery Workers, Assembly	177
7	55T31	Mailers	165
8	25436	Writers and/or Editors	147
9	55D58	Strippers	143
10	55B29	Supervisors, Nonworking	141

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	10000	Managers and Officers	87.9
2	55D56	Offset Lithographic Press Operators, Sheet, Roll or Web Fed	54.8
3	55D59	Camera Operators, Printing	49.2
4	71000	Sales Representatives, Sales Agents, and/or Sales Associates	44.4
5	61392	Typists	42.7

STAFFING PATTERNS

PRINTING, PUBLISHING, AND ALLIED INDUSTRIES

(SIC 27)

OCCUPATIONAL TITLE	OES CODE	MAY 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
TOTAL ALL OCCUPATIONS		6,243	100.0				
MANAGERS AND OFFICERS	10000	589	9.4	3	607	571	87.9
PROFESSIONAL OCCUPATIONS	20000	485	7.7				
All Engineers	21000	4	0.1	NA	-	-	NA
Systems Analysts, Electronic Data Processing	24000	12	0.2	7	13	11	3.2
Photographers	25200	15	0.2	11	17	13	6.5
Purchasing Agents and/or Buyers	25300	12	0.2	11	13	11	8.9
Accountants and Auditors	25401	12	0.2	10	13	11	7.3
Commercial Artists	25426	40	0.6	21	48	32	6.5
Writers and/or Editors	25436	147	2.3	11	163	131	21.0
Reporters and Correspondents	25476	183	2.9	6	194	172	20.2
Designers	25489	11	0.2	16	13	9	4.0
Estimator, Printing Services	25540	20	0.3	13	23	17	7.3
All Other Professional Workers	29000	29	0.5	NA	-	-	NA
TECHNICAL OCCUPATIONS	30000	72	1.2				
Computer Programmers	31000	17	0.3	28	22	12	7.3
Drafters	32003	43	0.7	16	50	36	12.1
Electrical and Electronic Technicians	32004	10	0.2	39	14	6	2.4
All Other Technicians	39000	2	*	NA	-	-	NA
SERVICE OCCUPATIONS	40000	126	2.0				
Janitors, Porters, and Cleaners	41000	67	1.1	6	71	63	23.4
All Other Service Workers	49000	59	0.9	NA	-	-	NA

See page 184 for explanation of footnotes.

STAFFING PATTERNS

PRINTING, PUBLISHING, AND ALLIED INDUSTRIES

(SIC 27)

OCCUPATIONAL TITLE	OES CODE	MAY 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
PRODUCTION OCCUPATIONS	50000	3,631	58.2				
Mechanics, Maintenance	51043	39	0.6	2	40	38	4.8
All Other Mechanics and Repairers	51900	11	0.2	NA	-	-	NA
Developers and/or Projection Printers	52002	12	0.2	8	13	11	4.0
Truck Drivers	54000	26	0.4	6	28	24	6.5
Carpenters	55A47	10	0.2	16	12	8	4.8
Delivery and/or Route Workers	55A87	58	0.9	11	64	52	18.5
Electricians	55B12	19	0.3	3	20	18	4.8
Supervisors, Nonworking	55B29	141	2.3	5	148	134	21.8
Industrial Truck Operators	55B57	48	0.8	3	49	47	5.6
Inspectors	55B58	23	0.4	2	23	23	5.6
Maintenance Repairers, General Utility	55B86	17	0.3	8	18	16	5.6
Helpers, Trades	55B87	14	0.2	17	16	12	2.4
Order Fillers	55C08	19	0.3	10	21	17	3.2
Production Packagers, Hand or Machine	55C39	291	4.7	5	306	276	8.1
Offset Lithographic Press Operators, Sheet, Roll or Web Fed	55D56	571	9.1	2	582	560	54.8
Platemakers	55D57	64	1.0	7	68	60	20.2
Strippers	55D58	143	2.3	7	153	133	31.5
Camera Operators, Printing	55D59	116	1.9	6	123	109	49.2
Copy Markers	55T01	10	0.2	17	12	8	4.8
Hand Compositors	55T03	98	1.6	16	114	82	26.6
Imposers and Makeup Arrangers	55T04	24	0.4	16	28	20	8.9
Linecasting Machine Operators	55T05	23	0.4	21	28	18	7.3
Linecasting Machine Keyboard Operators	55T06	14	0.2	28	18	10	4.8
Pasteup Workers	55T11	114	1.8	6	121	107	17.7

See page 184 for explanation of footnotes.

STAFFING PATTERNS

PRINTING, PUBLISHING, AND ALLIED INDUSTRIES

(SIC 27)

OCCUPATIONAL TITLE	OES CODE	MAY 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
Phototypesetting Machine Keyboard Operators	55T12	40	0.6	11	44	36	6.5
Phototypesetting Machine Monitors	55T13	32	0.5	17	37	27	4.8
Phototypesetter Operators	55T14	67	1.1	13	76	58	8.9
Proofreaders, Composed Copy	55T15	86	1.4	7	92	80	29.0
Photoengravers	55T18	25	0.4	31	33	17	5.6
Letter Press Operators Sheet, Roll or Web Fed	55T23	130	2.1	6	138	122	19.4
Letterset Press Operators, Sheet, Roll or Web Fed	55T24	10	0.2	0	10	10	1.6
Press Assistants and Feeders	55T27	93	1.5	6	99	87	14.5
Setters, Bindery Machines	55T28	32	0.5	11	36	28	10.5
Mailers	55T31	165	2.6	3	170	160	7.3
Cutters, Machine	55T66	46	0.7	5	48	44	9.7
Bookbinders, Hand	55T80	32	0.5	7	34	30	4.8
Bookbinders, Machine	55T81	90	1.4	5	94	86	14.5
Bindery Workers Assembly	55T82	177	2.8	7	189	165	21.0
Bindery Workers, Stitching	55T83	24	0.4	10	26	22	7.3
All Other Bindery Workers	55T84	93	1.5	NA	-	-	NA
All Other Skilled Craft and Kindred Workers	59001	160	2.6	NA	-	-	NA
All Other Operatives and Semiskilled Workers	59002	240	3.8	NA	-	-	NA
All Other Laborers and Unskilled Workers	59003	184	2.9	NA	-	-	NA
CLERICAL OCCUPATIONS	60000	1,042	16.7				
Bookkeeping and/or Billing Machine Operators	61103	14	0.2	12	16	12	6.5

See page 184 for explanation of footnotes.

STAFFING PATTERNS

PRINTING, PUBLISHING, AND ALLIED INDUSTRIES

(SIC 27)

OCCUPATIONAL TITLE	OES CODE	MAY 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
Computer Operators	61105	13	0.2	17	15	11	4.0
Keypunch Operators	61107	16	0.3	8	17	15	3.2
Inserting and/or Labeling Machine Operators	61117	32	0.5	6	34	30	3.2
All Other Office Machine Operators	61199	7	0.1	NA	-	-	NA
Stenographers	61200	10	0.2	32	13	7	1.6
Accounting Clerks	61301	50	0.8	15	58	42	21.0
Bookkeepers, Hand	61307	90	1.4	8	97	83	40.3
File Clerks	61330	22	0.4	20	26	18	6.5
General Clerks, Office	61333	105	1.7	13	119	91	31.5
Order Clerks	61350	33	0.5	13	37	29	6.5
Payroll and/or Timekeeping Clerks	61351	15	0.2	8	16	14	10.5
Secretaries	61368	109	1.7	8	118	100	41.1
Switchboard Operator/ Receptionists	61377	15	0.2	11	17	13	9.7
Typists	61392	140	23	7	150	130	42.7
Clerical Supervisors, Office or Plant	61396	27	0.4	12	30	24	8.9
Circulation Clerks	61416	44	0.7	18	52	36	8.9
Classified Ad Clerks, Newspaper	61417	17	0.3	19	20	14	4.8
Customer Service Representatives, Printing and Publishing	61418	34	0.6	6	36	32	7.3
Telephone Ad-Taker, Newspaper	61419	46	0.7	6	49	43	6.5
All Other Office Clerical Workers	61900	34	0.6	NA	-	-	NA
Production Clerks and/or Coordinators	62003	31	0.5	14	35	27	8.1
Shipping Packers	62004	38	0.6	7	41	35	4.8
Shipping and/or Receiving Clerks	62005	83	1.3	10	91	75	29.0
All Other Plant Clerical Workers	62900	17	0.3	NA	-	-	NA

See page 184 for explanation of footnotes.

STAFFING PATTERNS

PRINTING, PUBLISHING, AND ALLIED INDUSTRIES

(SIC 27)

OCCUPATIONAL TITLE	OES CODE	MAY 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
SALES OCCUPATIONS	70000	298	4.8				
Sales Representatives, Sales Agents, and/or Sales Associates	71000	279	4.5	6	296	262	44.4
All Other Sales Workers	79000	19	0.3	NA	-	-	NA

* Less than 0.05 percent.

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

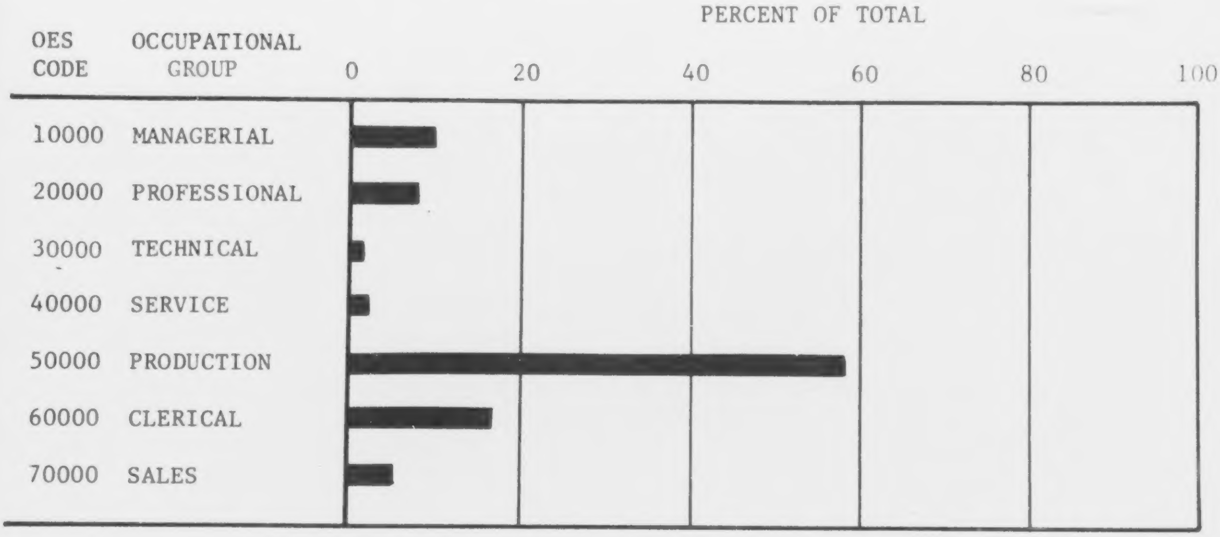
Addressing Machine Operators
Cashiers
Conveyor Operators or Tenders
Flexographic Press Operators
Food Service Workers
Guards and Doorkeepers
Industrial Engineers
Ink Workers
Librarians, Professional
Linecasting Machine Tenders
Machinists
Mechanical Engineers
Messengers
Millwrights
Nurses, Professional
Oilers
Painters, Maintenance
Peripheral Electronic Data Processing Equipment Operators
Personnel and Labor Relations Specialists
Personnel Clerks
Photolettering Machine Operators
Plumbers and/or Pipefitters
Procurement Clerks
Proof Press Operators
Receptionists
Retouchers
Sales Clerks
Screen Makers, Photographic Process
Screen or Stencil Printers and/or Setters
Statistical Clerks
Steel Die Press Operators
Stock Clerks, Stockroom, Warehouse or Storage Yard
Strike on Machine Operators
Supervisors, Nonworking--Service Only
Switchboard Operators
Vulcanizers, Rubber Plate
Welders and/or Flamecutters

See page 184 for explanation of footnotes.

PERCENT DISTRIBUTION OF MAJOR OCCUPATIONAL GROUPS

PRINTING, PUBLISHING, AND ALLIED INDUSTRIES

(SIC 27)



ANNUAL AVERAGE EMPLOYMENT (in thousands)*

1972-1980

PRINTING, PUBLISHING, AND ALLIED INDUSTRIES

(SIC 27)

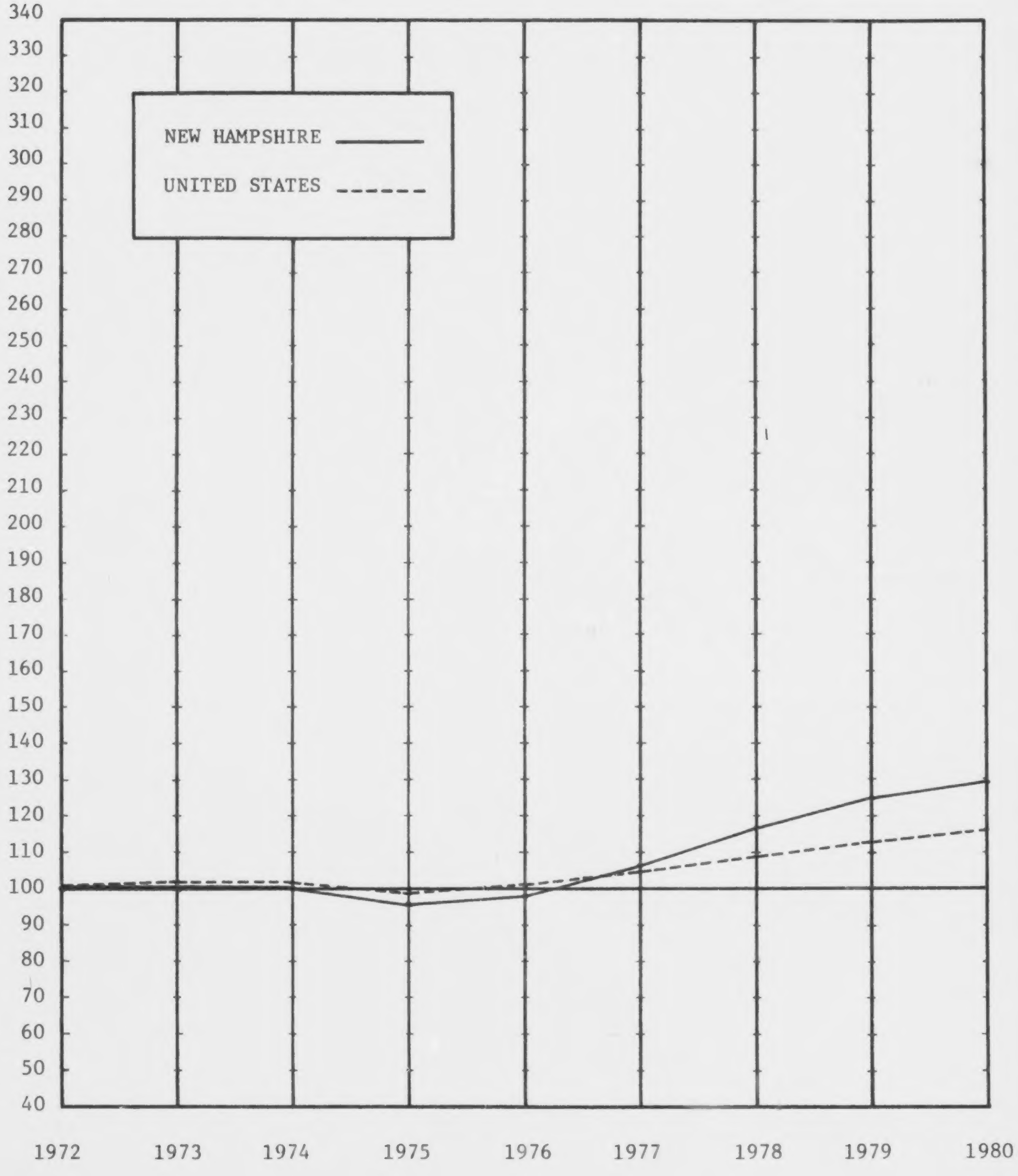
	NEW HAMPSHIRE		UNITED STATES	
YEAR	ANNUAL AVERAGE	PERCENT CHANGE	ANNUAL AVERAGE	PERCENT CHANGE
1972	4.8	-	1,094.0	-
1973	4.8	0	1,110.7	1.5
1974	4.8	0	1,111.3	0.1
1975	4.6	- 4.2	1,083.4	- 2.5
1976	4.7	2.2	1,099.2	1.5
1977	5.1	8.5	1,141.4	3.8
1978	5.6	9.8	1,192.0	4.4
1979	6.0	7.1	1,239.5	4.0
1980**	6.2	3.3	1,271.7	2.6

* Nonagricultural Employment

** Employment for 1980 based on preliminary data.

INDEXES OF EMPLOYMENT
NEW HAMPSHIRE AND THE UNITED STATES 1972 - 1980
1972 = 100

PRINTING, PUBLISHING, AND ALLIED INDUSTRIES
(SIC 27)



OCCUPATIONAL EMPLOYMENT
NONDURABLE GOODS MANUFACTURING
RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS
(SIC 30)

This major group includes establishments manufacturing from natural, synthetic, or reclaimed rubber, gutta percha, balata, or gutta siak, rubber products such as tires, rubber footwear, mechanical rubber goods, heels and soles, flooring, and rubber sundries. This group also includes establishments primarily manufacturing tires (except recapping and retreading automobile tires). This group also includes establishments engaged in molding primary plastics for the trade, and manufacturing miscellaneous finished plastics products.

During the survey month of June 1980 there were 8,623 wage and salary workers employed in this major industry group, which reflected almost no change in total employment from the previous survey for the same period three years ago. However, there was a reduction of 595 workers in production and production related occupations and a gain of 620 workers in the managerial (109), professional (186), clerical (178) and sales (147) occupations during this time. The three most significant occupations were in the production group and combined to make up 1,249 workers, or about 14 percent of the total employment.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	JUNE 1980 ESTIMATED EMPLOYMENT
1	55C39	Production Packagers, Hand or Machine	430
2	55U00	Assemblers	417
3	55B58	Inspectors	402
4	10000	Managers and Officers	325
5	55R85	Compression and/or Injection Molding Machine Operators, Plastics	317
6	55I69	Finishers, Hand	314
7	55B29	Supervisors, Nonworking	303
8	71000	Sales Representatives, Sales Agents, and/or	251
9	55C78	Sewing Machine Operators, Regular Equipment -- Nongarment	203
10	55B84	Machinists	193

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	10000	Managers and Officers	96.9
2	55B29	Supervisors, Nonworking	68.8
3	55B58	Inspectors	62.5
	55B86	Maintenance Repairers, General Utility	62.5
5	55B84	Machinists	59.4

STAFFING PATTERNS

RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS

(SIC 30)

OCCUPATIONAL TITLE	OES CODE	JUNE 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
TOTAL ALL OCCUPATIONS		8,623	100.0				
MANAGERS AND OFFICERS	10000	325	3.7	8	351	299	96.9
PROFESSIONAL OCCUPATIONS	20000	384	4.4				
Chemical Engineers	21003	23	0.3	48	34	12	15.6
Industrial Engineers	21006	60	0.7	30	78	42	21.9
Mechanical Engineers	21008	36	0.4	32	48	24	28.1
All Other Engineers	21900	113	1.3	NA	-	-	NA
Chemists	22201	12	0.1	29	15	9	21.9
Systems Analysts, Electronic Data Processing	24000	15	0.2	27	19	11	15.6
Purchasing Agents and/or Buyers	25300	29	0.3	10	32	26	53.1
Accountants and Auditors	25401	35	0.4	12	39	31	31.3
Personnel and Labor Relations Specialists	25465	18	0.2	11	20	16	34.4
Designers	25489	31	0.4	14	35	27	21.9
All Other Professional Workers	29000	12	0.1	NA	-	-	NA
TECHNICAL OCCUPATIONS	30000	100	1.2				
Drafters	32003	33	0.4	41	47	19	25.0
All Other Engineering Technicians	32900	51	0.6	NA	-	-	NA
All Other Technicians	39000	16	0.2	NA	-	-	NA
SERVICE OCCUPATIONS	40000	106	1.3				
Janitors, Porters, and Cleaners	41000	69	0.8	8	75	63	43.8
Supervisors, Nonworking--Service Only	44014	32	0.4	38	44	20	9.4
All Other Service Workers	49000	5	0.1	NA	-	-	NA

See page 184 for explanation of footnotes.

STAFFING PATTERNS

RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS

(SIC 30)

OCCUPATIONAL TITLE	OES CODE	JUNE 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
PRODUCTION OCCUPATIONS	50000	6,736	78.1				
Mechanics, Maintenance	51043	121	1.4	24	150	92	31.3
All Other Mechanics and Repairers	51900	13	0.2	NA	-	-	NA
Truck Drivers	54000	37	0.4	20	44	30	37.5
Carpenters	55A47	10	0.1	7	11	9	18.8
Electricians	55B12	50	0.6	11	56	44	40.6
Supervisors, Nonworking	55B29	303	3.5	10	333	273	68.8
Industrial Truck Operators	55B57	121	1.4	15	139	103	34.4
Inspectors	55B58	402	4.7	11	446	358	62.5
Machinists	55B84	193	2.2	9	210	176	59.4
Maintenance Repairers, General Utility	55B86	179	2.1	15	206	152	62.5
Helpers, Trades	55B87	45	0.5	30	58	32	18.8
Order Fillers	55C08	54	0.6	8	58	50	18.8
Plumbers and/or Pipefitters	55C30	15	0.2	23	18	12	12.5
Press Operators and/or Plate Printers	55C36	13	0.2	36	18	8	9.4
Production Packagers, Hand or Machine	55C39	430	5.0	21	520	340	34.4
Sewing Machine Operators, Regular Equipment--Nongarment	55C78	203	2.4	9	221	185	9.4
Sewing Machine Operators, Special and/or Automatic Equipment--Nongarment	55C79	76	0.9	8	82	70	9.4
Sheet Metal Workers	55C81	27	0.3	48	40	14	9.4
Tool and Die Makers	55D23	78	0.9	18	92	64	25.0
Welders an/or Flame-cutters	55D46	21	0.2	34	28	14	15.6
Trimmers, Machine	55D94	22	0.3	46	32	12	12.5
Curers, Rubber Goods	55H15	13	0.2	40	18	8	6.3
Die Cutters and/or Clicking Machine Operators	55H64	95	1.1	18	112	78	18.8

See page 184 for explanation of footnotes.

STAFFING PATTERNS

RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS

(SIC 30)

OCCUPATIONAL TITLE	OES CODE	JUNE 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Dipping Machine Operators	55H76	81	0.9	34	109	53	3.1
Fabricators, Plastics	55I50	103	1.2	37	141	65	9.4
Finishers, Hand	55I69	314	3.6	24	389	239	12.5
Rubber Mill Operators	55L33	12	0.1	20	14	10	9.4
Patternmakers, Plastics	55M06	17	0.2	36	23	11	12.5
Rubber Goods Cutter-Finishers	55N43	18	0.2	19	21	15	6.3
Slitting Machine Operators	55P49	10	0.1	31	13	7	6.3
Strippers	55Q35	23	0.3	37	32	14	12.5
Testers	55Q57	15	0.2	26	19	11	12.5
Thermalasting Machine Operators	55Q58	40	0.5	1	40	40	6.3
Splicers	55Q92	71	0.8	43	102	40	3.1
Vulcanizers, Footwear	55R16	18	0.2	0	18	18	3.1
Press Tenders, Rubber Goods	55R57	93	1.1	24	115	71	15.6
Painters, Production	55R68	154	1.8	16	179	129	25.0
Compression and/or Injection Molding Machine Operators, Plastics	55R85	317	3.7	20	380	254	9.4
Conveyor Operators or Tenders	55R90	30	0.3	42	43	17	9.4
Setters, Plastic Molding Machine	55S28	95	1.1	25	119	71	25.0
Punch Press Operators, Plastics	55S30	53	0.6	39	74	32	6.3
Chief Operators	55S53	46	0.5	34	62	30	6.3
Cutters, Machine	55T66	35	0.4	12	39	31	15.6
Embossing, Stamping and/or Marking Machine Operators	55T79	19	0.2	11	21	17	12.5
Grinder Operators, Chemicals, Plastics, Rubber, and Related Materials	55T86	24	0.3	16	28	20	28.1
Extruder Operators, Plastics or Rubber	55T91	31	0.4	12	35	27	18.8

See page 184 for explanation of footnotes.

STAFFING PATTERNS

RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS

(SIC 30)

OCCUPATIONAL TITLE	OES CODE	JUNE 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Heat Sealers	55T94	72	0.8	7	77	67	15.6
Assemblers	55U00	417	4.8	31	546	288	50.0
Mixers and/or Blenders, Chemicals and Chemical Products	57031	76	0.9	16	88	64	40.6
Blow-Molding Machine Operators	58002	103	1.2	44	148	58	12.5
Casters, Plastics	58004	11	0.1	0	11	11	3.1
Press Operators, Plastics	58010	64	0.7	37	88	40	12.5
Rotation Molding Machine Operators	58011	37	0.4	28	47	27	12.5
All Other Skilled Craft and Kindred Workers	59001	138	1.6	NA	-	-	NA
All Other Operatives and Semiskilled Workers	59002	646	7.5	NA	-	-	NA
All Other Laborers and Unskilled Workers	59003	1,032	120.0	NA	-	-	NA
CLERICAL OCCUPATIONS	60000	716	8.3				
Keypunch Operators	61107	21	0.2	19	25	17	25.0
All Other Office Machine Operators	61199	8	0.1	NA	-	-	NA
Accounting Clerks	61301	34	0.4	11	38	30	37.5
General Clerks, Office	61333	42	0.5	11	47	37	50.0
Order Clerks	61350	19	0.2	13	21	17	25.0
Payroll and/or Timekeeping Clerks	61351	34	0.4	13	38	30	56.3
Secretaries	61368	83	1.0	11	92	74	56.3
Switchboard Operator/ Receptionists	61377	15	0.2	14	17	13	37.5
Clerical Supervisors	61396	11	0.1	21	13	9	25.0
All Other Office Clerical Workers	61900	62	0.7	NA	-	-	NA
Production Clerks and/or Coordinators	62003	41	0.5	5	43	39	40.6
Shipping Packers	62004	142	1.7	27	180	104	53.1
Shipping and/or Receiving Clerks	62005	61	0.7	17	71	51	56.3

See page 184 for explanation of footnotes.

STAFFING PATTERNS

RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS

(SIC 30)

OCCUPATIONAL TITLE	OES CODE	JUNE 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Stock Clerks, Stockroom, Warehouse or Storage Yard	62008	72	0.8	27	91	53	37.5
All Other Plant Clerical Workers	62900	71	0.8	NA	-	-	NA
SALES OCCUPATIONS	70000	256	3.0				
Sales Representatives, Sales Agents, and/or Sales Associates	71000	251	2.9	17	294	208	46.9
All Other Sales Workers	79000	5	0.1	NA	-	-	NA

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

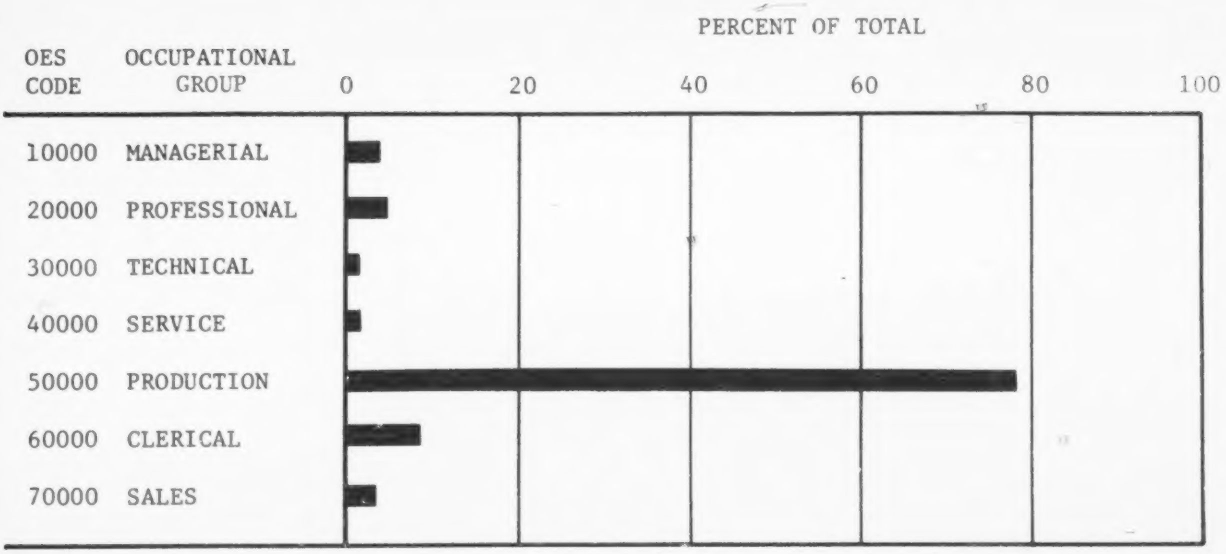
Bookkeepers, Hand
Calender Operator Helpers, Plastics or Rubber
Calender Operators, Plastics or Rubber
Chemical Operator Helpers
Computer Operators
Computer Programmers
Extruder Operator Helpers, Plastics or Rubber
File Clerks
Finishers, Machine
Guards and Doorkeepers
Industrial Engineers
Mechanics, Automotive
Millwrights
Mold Cleaners, Tire
Nurses, Professional
Oilers
Painters, Maintenance
Personnel Clerks
Procurement Clerks
Receptionists
Sales Clerks
Sawyers Plastics
Science Technicians
Skivers
Stationary Boiler Firers
Stationary Engineers
Statistical Clerks
Stenographers
Switchboard Operators
Typists
Weighers, Production

See page 184 for explanation of footnotes.

PERCENT DISTRIBUTION OF MAJOR OCCUPATIONAL GROUPS

RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS

(SIC 30)



ANNUAL AVERAGE EMPLOYMENT (in thousands)*

1972-1980

RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS

(SIC 30)

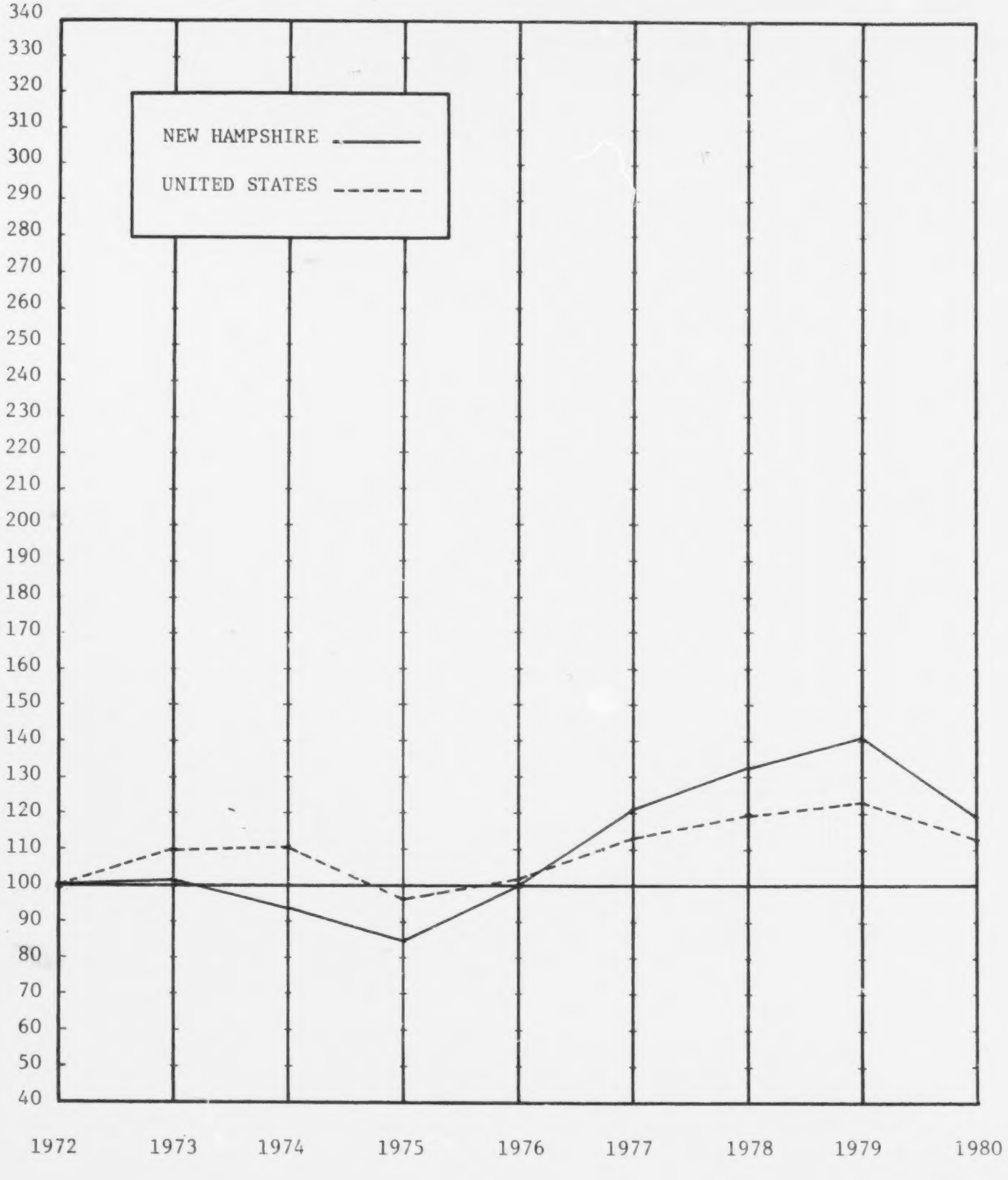
	NEW HAMPSHIRE		UNITED STATES	
YEAR	ANNUAL AVERAGE	PERCENT CHANGE	ANNUAL AVERAGE	PERCENT CHANGE
1972	7.7	-	630.1	-
1973	7.8	1.3	692.2	9.9
1974	7.2	- 7.7	694.7	0.4
1975	6.5	- 9.7	608.1	- 12.5
1976	7.7	18.5	639.5	5.2
1977	9.3	20.8	713.5	11.6
1978	10.2	9.7	754.5	5.7
1979	10.8	5.9	775.6	2.8
1980**	9.2	- 14.8	710.7	- 8.4

* Nonagricultural Employment

** Employment for 1980 based on preliminary data.

INDEXES OF EMPLOYMENT
NEW HAMPSHIRE AND THE UNITED STATES 1972 - 1980
1972 = 100

RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS
(SIC 30)



OCCUPATIONAL EMPLOYMENT
NONDURABLE GOODS MANUFACTURING
LEATHER AND LEATHER PRODUCTS
(SIC 31)

This major group includes establishments engaged in tanning, currying, and finishing hides and skins, and establishments manufacturing finished leather and artificial leather products and some similar products made of other materials. Leather converters are also included.

There were 9,543 wage and salary workers employed in the leather and leather products industries during the survey month of April 1980. This represents a 13 percent decrease in employment from a similar occupational survey three years ago when there were an estimated 11,001 workers employed in these industries. The greatest number of workers were engaged in production and production activities, numbering 8,022 employees or 84 percent of the total leather and leather products group. The three occupations employing the largest number of workers, stitchers (standard machine) with 1,027 workers, floor workers (footwear) with 496 workers, and die cutters with 338 workers combined to make up almost 20 percent of the total work force in this major group.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	JUNE 1980 ESTIMATED EMPLOYMENT
1	55Q16	Stitchers, Standard Machine	1,027
2	55I85	Floor Workers, Footwear	496
3	55H64	Die Cutters and/or Clicking Machine Operators	338
4	55U00	Assemblers	316
5	55C78	Sewing Machine Operators, Regular Equipment -- Nongarment	281
6	55S69	Cementers, Pasters, Backers, or Fitters, Hand	269
7	55B29	Supervisors, Nonworking	240
8	10000	Managers and Officers	234
9	55Q17	Stitchers, Utility	205
10	55P01	Shoe Parts Sewers, Hand	193

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	10000	Managers and Officers	89.2
2	55H64	Die Cutters and/or Clicking Machine Operators	64.9
3	41000	Janitors, Porters, and Cleaners	59.5
	61351	Payroll and/or Timekeeping Clerks	59.5
5	62004	Shipping Packers	56.8

STAFFING PATTERNS

LEATHER AND LEATHER PRODUCTS

(SIC 31)

OCCUPATIONAL TITLE	OES CODE	APRIL 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
TOTAL ALL OCCUPATIONS		9,543	100.0				
MANAGERS AND OFFICERS	10000	234	2.5	11	260	208	89.2
PROFESSIONAL OCCUPATIONS	20000	155	1.6				
Industrial Engineers	21006	19	0.2	16	22	16	32.4
Mechanical Engineers	21008	11	0.1	29	14	8	13.5
All Other Engineers	21900	4	*	NA	-	-	NA
Purchasing Agents and/or Buyers	25300	40	0.4	9	44	36	43.2
Accountants and Auditors	25401	24	0.3	9	26	22	27.0
Personnel and Labor Relations Specialists	25465	15	0.2	24	19	11	16.2
Designers	25489	33	0.3	15	38	28	27.0
All Other Professional Workers	29000	9	0.1	NA	-	-	NA
TECHNICAL OCCUPATIONS	30000	73	0.8				
Computer Programmers	31000	20	0.2	31	26	14	13.5
Engineering Technicians	32000	19	0.2	36	26	12	10.8
Science Technicians	33000	17	0.2	45	25	9	5.4
ALL OTHER TECHNICIANS	39000	17	0.2	NA	-	-	NA
SERVICE OCCUPATIONS	40000	96	1.0				
Janitors, Porters, and Cleaners	41000	69	0.7	13	78	60	59.5
All Other Service Workers	49000	27	0.3	NA	-	-	NA
PRODUCTION OCCUPATIONS	50000	8,022	84.0				
Mechanics, Maintenance	51043	28	0.3	38	39	17	21.6
All Other Mechanics and Repairers	51900	4	*	NA	-	-	NA

See page 184 for explanation of footnotes.

STAFFING PATTERNS

LEATHER AND LEATHER PRODUCTS

(SIC 31)

OCCUPATIONAL TITLE	OES CODE	APRIL 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Pressers, Machine	53015	21	0.2	47	31	11	10.8
Truck Drivers	54000	31	0.3	21	38	24	29.7
Supervisors, Nonworking	55B29	240	2.5	14	274	206	48.6
Industrial Truck Operators	55B57	20	0.2	17	23	17	18.9
Inspectors	55B58	136	1.4	12	152	120	35.1
Machinists	55B84	29	0.3	21	35	23	24.3
Maintenance Repairers, General Utility	55B86	77	0.8	19	92	62	37.8
Production Packagers, Hand or Machine	55C39	126	1.3	14	144	108	43.2
Sewing Machine Operators, Regular Equipment--Nongarment	55C78	281	2.9	26	354	208	40.5
Sewing Machine Operators, Special and/or Automatic Equipment--Nongarment	55C79	79	0.8	18	93	65	35.1
Skivers	55D04	88	0.9	14	100	76	48.6
Trimmers, Machine	55D94	105	1.1	20	126	84	40.5
Assemblers for Puller-Over Hand or Machine	55E25	150	1.6	21	182	118	40.5
Bed Lasters	55E63	53	0.6	18	63	43	27.0
Bottom Fillers	55F03	67	0.7	33	89	45	27.0
Buffers, Hides or Skins	55F23	39	0.4	33	52	26	8.1
Buffers, Shoe Parts	55F24	112	1.2	25	140	84	35.1
Cementers, Machine Joiner	55F91	64	0.7	20	77	51	27.0
Perforator Operators	55G16	25	0.3	22	30	20	21.6
Cobblers	55G49	54	0.6	17	63	45	29.7
Die Cutters and/or Clicking Machine Operators	55H64	338	3.5	8	365	311	64.9
Flamers	55I82	32	0.3	19	38	26	32.4
Floor Workers, Footwear	55I85	496	5.2	17	580	412	51.4
Folders, Machine	55I89	29	0.3	21	35	23	29.7
Heel Attachers	55J89	43	0.4	19	51	35	32.4
Heel Seat Lasters, Machine	55J92	34	0.4	19	40	28	32.4
Heel Seat Fitters, Machine	55J94	14	0.1	34	19	9	13.5

See page 184 for explanation of footnotes.

STAFFING PATTERNS

LEATHER AND LEATHER PRODUCTS

(SIC 31)

OCCUPATIONAL TITLE	OES CODE	APRIL 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Inkers, Hand or Machine	55K18	24	0.3	23	30	18	18.9
Lasters, Hand	55K54	36	0.4	25	45	27	21.6
Lasting Machine Operators, Hand Method	55K55	43	0.4	22	52	34	18.9
Patternmakers	55M08	12	0.1	11	13	11	8.1
Repairers, Finish	55N05	141	1.5	12	158	124	43.2
Rough Rounders, Machine	55N37	20	0.2	26	25	15	16.2
Seam Rubbing Machine Operators	55N81	40	0.4	27	51	29	27.0
Shoe Parts Sewers, Hand	55P01	193	2.0	35	261	125	16.2
Shank-Piece Tackers	55P05	27	0.3	22	33	21	29.7
Side Lasters	55P21	54	0.6	19	64	44	32.4
Sole Levelers, Machine	55P61	27	0.3	47	40	14	13.5
Sorters, Leather	55P63	76	0.8	13	86	66	43.2
Splitting Machine Feeders	55P78	24	0.3	43	34	14	10.8
Sprayers, Hand and/or Machine	55P83	44	0.5	27	56	32	27.0
Stainers	55P90	18	0.2	32	24	12	18.9
Stakers, Machine	55P91	23	0.2	39	32	14	10.8
Stitchers, Special Machine	55Q15	56	0.6	22	68	44	16.2
Stitchers, Standard Machine	55Q16	1,027	10.7	8	1,109	945	54.1
Stitchers, Utility	55Q17	205	2.1	19	244	166	45.9
Tackers, Togglers, and Pasters	55Q45	92	1.0	5	97	87	13.5
Tanning Drum Operators and/or Colorers, Hides or Skins	55Q50	37	0.4	40	52	22	8.1
Toe Lasters	55Q76	18	0.2	25	22	14	16.2
Treers	55Q84	0.8	0.8	22	93	59	29.7
Wringer Machine Operators	55R49	34	0.4	33	45	23	10.8
Compression and/or Injection Molding Machine Operators	55R85	44	0.5	13	50	38	8.1
Conveyor Operators or Tenders	55R90	17	0.2	29	22	12	16.2

See page 184 for explanation of footnotes.

STAFFING PATTERNS

LEATHER AND LEATHER PRODUCTS

(SIC 31)

OCCUPATIONAL TITLE	OES CODE	APRIL 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Splitters, Machine	55S67	32	0.3	29	41	23	21.6
Fasteners, Machine	55S68	81	0.8	20	97	65	35.1
Cementers, Pasters, Backers, or Fitters, Hand	55S69	269	2.8	12	301	237	45.9
Eyelet Machine Operators	55S70	47	0.5	14	54	40	40.5
Molders, Shoe Parts	55S71	17	0.2	13	19	15	18.9
Pulling and Lasting Machine Operators	55S73	50	0.5	16	58	42	29.7
Cutters, Hand	55S78	125	1.3	23	154	96	27.0
Gluers and/or Cementers, Hand	55T65	94	1.0	24	117	71	29.7
Embossing, Stamping and/or Marking Machine Operators	55T79	110	1.2	16	128	92	51.4
Assemblers	55U00	316	3.3	24	392	240	43.2
All Other Skilled Craft and Kindred Workers	59001	24	0.3	NA	-	-	NA
All Other Operatives and Semiskilled Workers	59002	427	4.5	NA	-	-	NA
All Other Laborers and Unskilled Workers	59003	1,207	12.6	NA	-	-	NA
CLERICAL OCCUPATIONS	60000	865	9.1				
Computer Operators	61105	10	0.1	26	13	7	13.5
Keypunch Operators	61107	16	0.2	15	18	14	10.8
All Other Office Machine Operators	61199	16	0.2	NA	-	-	NA
Accounting Clerks	61301	50	0.5	10	55	45	35.1
Bookkeepers, Hand	61307	35	0.4	14	40	30	45.9
General Clerks, Office	61333	128	1.3	7	137	119	51.4
Order Clerks	61350	43	0.4	9	47	39	18.9
Payroll and/or Timekeeping Clerks	61351	84	0.9	8	91	77	59.5
Personnel Clerks	61352	13	0.1	19	15	11	18.9
Secretaries	61368	46	0.5	22	56	36	32.4
Switchboard Operator/ Receptionists	61377	20	0.2	11	22	18	37.8

See page 184 for explanation of footnotes.

STAFFING PATTERNS

LEATHER AND LEATHER PRODUCTS

(SIC 31)

OCCUPATIONAL TITLE	OES CODE	APRIL 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Typists	61392	15	0.1	24	19	11	21.6
Clerical Supervisors	61396	141	1.5	9	154	128	45.9
All Other Office Clerical Workers	61900	54	0.6	NA	-	-	NA
Production Clerks and/or Coordinators	62003	41	0.4	23	50	32	32.4
Shipping Packers	62004	75	0.8	14	86	64	56.8
Shipping and/or Receiving Clerks	62005	45	0.5	18	53	37	54.1
Stock Clerks, Stockroom, Warehouse or Storage Yard	62008	28	0.3	13	32	24	29.7
All Other Plant Clerical Workers	62900	5	0.1	NA	-	-	NA
SALES OCCUPATIONS	70000	98	1.0				
Sales Representatives, Sales Agents, and/or Associates	71000	80	0.8	19	95	65	43.2
Sales Clerks	72002	18	0.2	36	24	12	16.2

* Less than 0.05 percent.

See page 184 for explanation of footnotes.

STAFFING PATTERNS

LEATHER AND LEATHER PRODUCTS

(SIC 31)

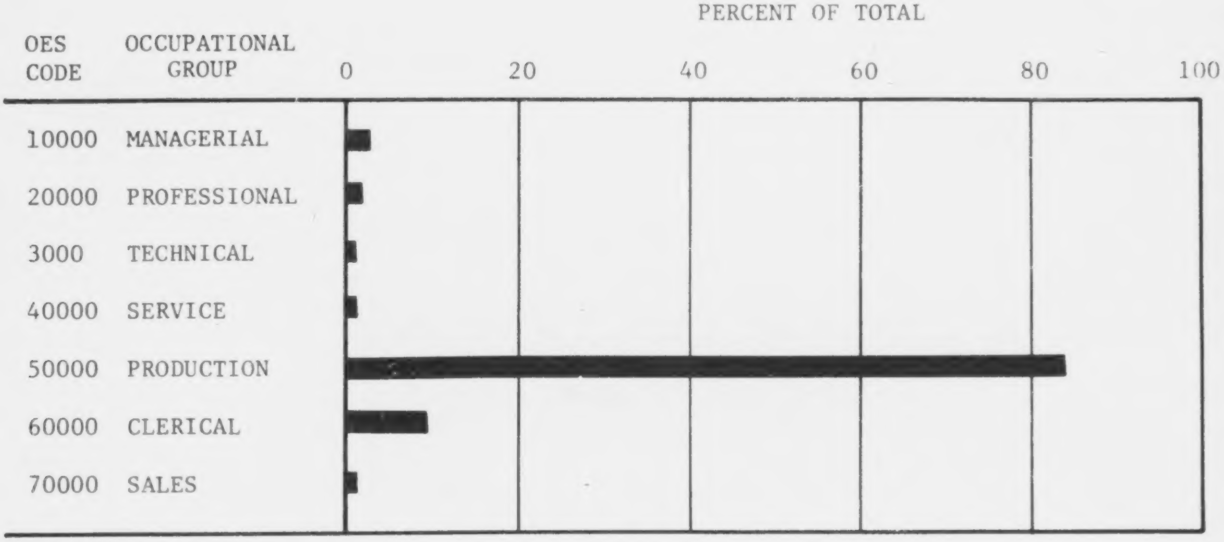
Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

- Beamers Hand or Machine
- Belt Makers, Apparel
- Bookkeeping and/or Billing Machine Operators
- Burnishers
- Carpenters
- Case Makers
- Electricians
- File Clerks
- Glue Spreading Machine Operators, Luggage
- Guards and Doorkeepers
- Heel Builders, Hand or Machine
- Helpers, Trades
- Instructors, Leather or Footwear Machinery
- Leather Stampers, Hand
- Limers
- Luggage Makers
- Measuring Machine Operators, Leather
- Nurses, Professional
- Oilers
- Painters, Maintenance
- Plumbers and/or Pipefitters
- Pressers, Hand
- Procurement Clerks
- Puller-Overs
- Receptionists
- Riveters, Light
- Seasoners, Machine
- Stationary Boiler Firers
- Statistical Clerks
- Stenographers
- Supervisors, Nonworking--Service Only
- Switchboard Operators
- Systems Analysts, Electronic Data Processing
- Tabulating Machine Operators
- Tanning Liquor Makers
- Thermalasting Machine Operators
- Vamp Creasers
- Weighers, Record-Keeping
- Welders and/or Flamecutters

PERCENT DISTRIBUTION OF MAJOR OCCUPATIONAL GROUPS

LEATHER AND LEATHER PRODUCTS

(SIC 31)



ANNUAL AVERAGE EMPLOYMENT (in thousands)*

1972-1980

LEATHER AND LEATHER PRODUCTS

(SIC 31)

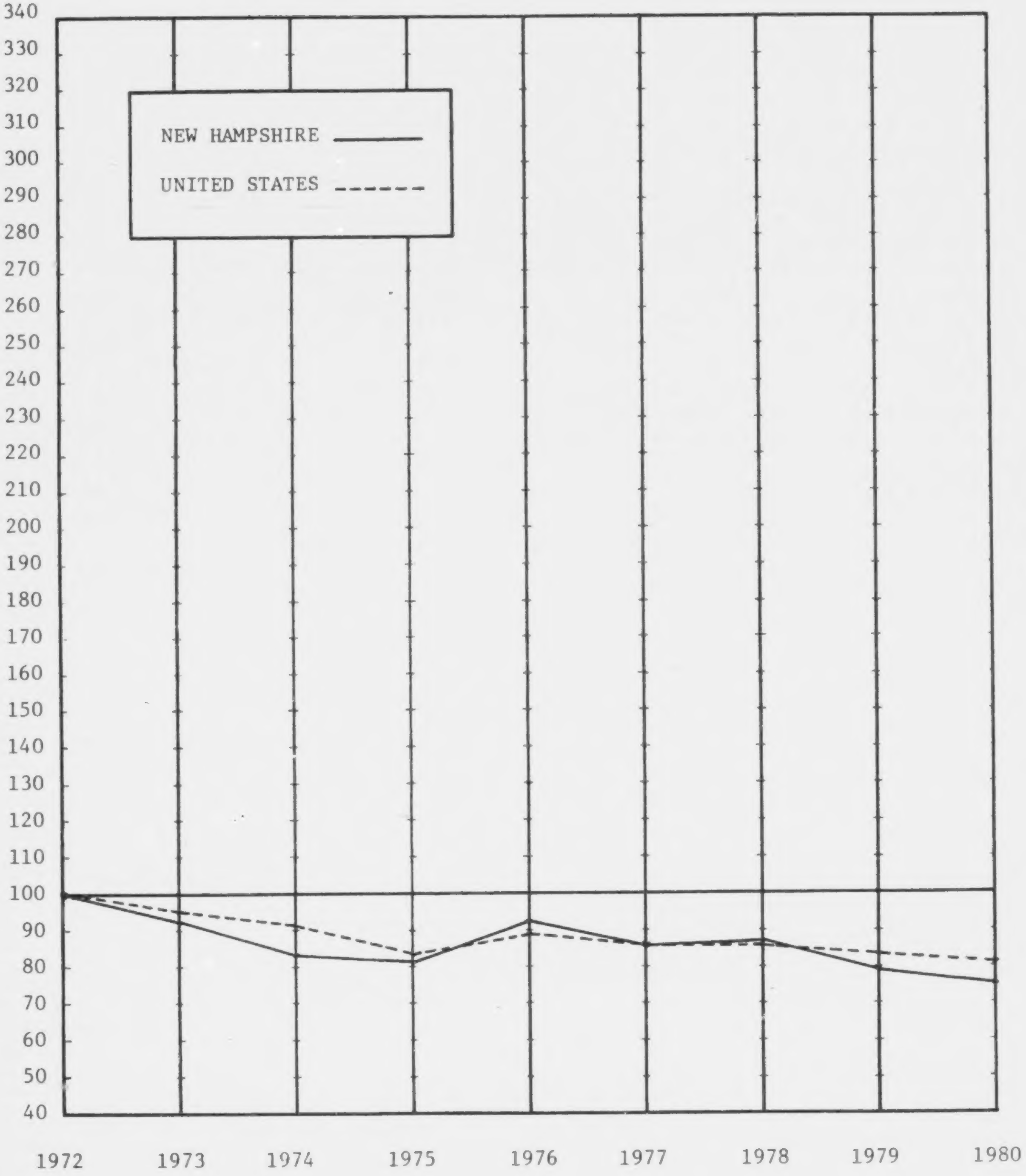
	NEW HAMPSHIRE		UNITED STATES	
YEAR	ANNUAL AVERAGE	PERCENT CHANGE	ANNUAL AVERAGE	PERCENT CHANGE
1972	12.8	-	296.0	-
1973	11.8	- 7.8	284.0	- 4.1
1974	10.7	- 9.3	271.1	- 4.5
1975	10.4	- 2.8	248.2	- 8.4
1976	11.8	13.5	262.7	5.8
1977	11.0	- 6.8	254.8	- 3.0
1978	11.2	1.8	256.8	0.8
1979	10.2	- 8.9	248.0	- 3.4
1980 **	9.7	- 4.9	240.1	- 3.2

* Nonagricultural Employment

** Employment for 1980 based on preliminary data.

INDEXES OF EMPLOYMENT
NEW HAMPSHIRE AND THE UNITED STATES 1972 - 1980
1972 = 100

LEATHER AND LEATHER PRODUCTS
(SIC 31)



METHODOLOGY

A. Sample and Survey Response

The second quarter of 1979 report of employment and wages covered by the New Hampshire Unemployment Compensation Law was used as the sampling frame for this survey. The manufacturing establishments were stratified by three digit SIC'S (Standard Industrial Classification) and by size class. Any unit with two hundred fifty or more employees was automatically included in the sample.

The actual reported survey period varied by industry and was either the week including April 12, May 12, or June 12, 1980 as designated by the U.S. Bureau of Labor Statistics.

Usable responses were received from 950 establishments or 76.5 percent of the 1,242 units surveyed. Employment reported by these units accounted for 83.2 percent of the total surveyed employment. The survey was conducted by mail and consisted of an initial mailing and two followups. Phone calls were made when needed to insure the validity of the estimates.

B. Estimating Procedure

All usable employer questionnaires were separated into seven employment size groups by industry. For example, establishments with employment of 4-9 would be in one size class and those with employment of 10-19 would be in another size class, etc. One class size in one industry represents an estimating cell. All establishments in a given estimating cell were assigned a sample weight which is the inverse of the sampling ratio. For example, if the reported employment in a specific occupation for an establishment is 100, and only one out of two establishments in this estimating cell is included in the sample, the weight assigned to this establishment would be the inverse of ½ which is two, and for estimating purposes, the 100 employment would have a representation of 200 (2 X 100). The employment for any specific occupation in each establishment is blown-up (inflated) by its sample weight and summed for all sample establishments in the cell. A ratio is then obtained by dividing this sum by the weighted total employment. This ratio is multiplied by the benchmark employment for that estimating cell corresponding to the survey month of April, May, or June 1980 depending on the industry being estimated. This yields the occupational make-up of the estimating cell for that month. Finally, the employment in like occupations are summed across all employment size classes within the three-digit SIC (Standard Industrial Classification) level to arrive at a total industry employment for each occupation.

C. Variance

Variance is defined as the difference between an expected universe count of an occupation and the actual sample count obtained in a survey. It is computed for each occupation at the estimating cell level. An estimating cell is composed of all establishments in one size class in one industry. The variance for an occupational estimate is the squared and weighted sample observations times a series of correction factors. The sum of the squared and weighted sample observations is derived from summation formulas dealing with weights assigned to establishments, total employment reported by establishments, and employment reported by establishments for specific occupations. The series of correction factors are derived from summation formulas dealing with benchmark employment less employment for volunteer reports, total employment reported by establishments, and the square of estimating cell benchmark factors (which are calculated by dividing the cell's benchmark employment by weighted total employment for the cell).

D. Sampling Error

Sampling error is defined as the difference between the estimated data derived from a sample and the data which would be expected if the entire universe of employers were surveyed. It is calculated by taking the square root of the variance of the estimates. In this publication, sampling error is measured on a 68 percent degree of confidence level or one standard deviation. For example, if an estimate of 100 has an associate sampling error of 10 the probability is 68 percent, or two chances out of three, that the true population value would be somewhere between 90 and 110.

E. Relative Error

Relative error expresses the sampling error as a percentage of the estimate. It is derived by dividing the sampling error (or square root of the variance) by the estimate and then multiplying by 100. For example, to illustrate the use of relative error, leather and leather products (SIC 31) lists an estimated total of 1,027 stitchers, standard machine with a relative error of eight percent. This indicates, at the 68 percent confidence level, the probability is two chances out of three that the results of a universe count of stitchers, standard machine would not differ from the estimate by more than 82 or an estimated high of 1,109 or low of 945. Any specific occupation with ten or more employees and a relative error of 50 percent or less was published separately in this report except in industries 26,33, and 356 where a relatively poor survey response restricted the relative error to the 35 percent level. Relative error was computed only for specific occupations and not for residual categories or occupational groupings.

F. Nonsampling Error

The results of this survey are subject to biases and other nonsampling errors. Although careful editing and screening steps were taken, such errors could arise from faulty questionnaire design, ineffective processing techniques, inaccuracy of data furnished, or the inability to collect data as defined. Non-respondents are a source of nonsampling error for which corrective measures are not available. The possibility of these errors was recognized from the beginning and every effort was made for their elimination.

Percent of firms reporting each occupation could not be readily calculated for groups of occupations, but only for specific occupations.

MANUFACTURING IN NEW HAMPSHIRE
SURVEY SAMPLE AND SAMPLE RESPONSE
1980

SIC		UNIVERSE		UNITS USABLE RESPONSE			EMPLOYMENT USABLE RESPONSE		
CODE	INDUSTRY	UNITS	EMPLOYMENT	SAMPLE	RESPONSE	RATE	SAMPLE	RESPONSE	RATE
20-39	TOTAL ALL MANUFACTURING	1,736	116,713	1,242	950	76.5	113,058	94,071	83.2
24,25 32-39	DURABLE GOODS	1,127	71,157	793	607	76.5	69,214	59,632	86.2
24	LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE	317	5,344	192	139	72.4	4,980	4,236	85.1
242	Sawmills and Planing Mills	101	1,906	83	60	72.3	1,807	1,469	81.3
243	Millwork, Veneer, Plywood, and Structural Wood Members	32	1,150	22	16	72.7	1,124	993	88.3
25	FURNITURE AND FIXTURES	51	1,952	43	29	67.4	1,925	1,651	85.8
251	Household Furniture	46	1,474	32	20	62.5	1,447	1,200	82.9
32	STONE, CLAY, GLASS, AND CONCRETE PRODUCTS	84	3,351	61	42	68.9	3,309	2,833	85.6
329	Abrasive, Asbestos, and Miscellaneous Nonmetalic Mineral Products	12	1,458	10	5	50.0	1,456	1,337	91.8
33	PRIMARY METAL INDUSTRIES	39	3,321	33	21	63.6	3,301	2,154	65.3
335	Rolling, Drawing, and Extruding of Nonferrous Metals	7	835	7	7	100.0	835	835	100.0
336	Nonferrous Foundries (Castings)	18	994	15	8	53.3	988	751	76.0

34	FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND TRANSPORTATION EQUIPMENT	140	7,230	112	88	78.6	7,196	5,792	80.5
344	Fabricated Structural Metal Products	45	1,996	37	31	83.8	2,012	1,628	80.9
349	Miscellaneous Fabricated Metal Products	22	1,590	21	18	85.7	1,589	1,551	97.6
35	MACHINERY, EXCEPT ELECTRICAL	250	21,561	173	139	80.3	20,936	16,852	80.5
353	Construction, Mining, and Materials Handling Machinery and Equipment	5	959	4	4	100.0	957	957	100.0
354	Metalworking Machinery and Equipment	58	2,934	43	37	86.0	2,901	2,426	83.6
355	Special Industry Machinery, Except Metalworking Machinery	36	4,195	17	14	82.4	3,716	3,381	91.0
356	General Industrial Machinery and Equipment	18	3,242	15	11	73.3	3,208	1,965	61.3
357	Office, Computing, and Accounting Machines	22	8,885	19	13	68.4	8,879	7,165	80.7
359	Miscellaneous Machinery, Except Electrical	106	1,059	71	57	80.3	990	826	83.4
36	ELECTRICAL AND ELECTRONIC MACHINERY, EQUIPMENT, AND SUPPLIES	131	18,734	89	74	83.1	17,958	16,931	94.3
362	Electrical Industrial Apparatus	10	982	7	6	85.7	978	969	99.1
364	Electric Lighting and Wiring Equipment	16	2,982	15	11	73.3	2,980	2,274	76.3
366	Communication Equipment	24	5,994	17	13	76.5	5,980	5,896	98.6
367	Electronic Components and Accessories	58	6,959	27	24	88.9	6,203	6,031	97.2
369	Miscellaneous Electrical Machinery, Equipment and Supplies	7	1,136	8	6	75.0	1,137	1,085	95.4

38	INSTRUMENTS AND RELATED SUPPLIES	58	7,646	50	42	84.0	7,626	7,481	98.1
381	Engineering and Scientific Instruments	7	1,574	5	4	80.0	1,570	1,555	99.0
382	Measuring and Controlling Instruments	19	4,677	16	14	87.5	4,667	4,632	99.3
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	57	2,018	40	33	82.5	1,983	1,702	85.8
399	Miscellaneous Manufactures	27	1,066	21	19	90.5	1,054	975	92.5
20-23, 26-31	NONDURABLE GOODS	609	45,556	449	343	76.4	43,844	34,439	78.5
20	FOOD AND KINDRED PRODUCTS	70	3,149	56	46	82.1	3,108	2,785	89.6
208	Beverages	16	1,064	14	13	92.9	1,059	1,011	95.5
22	TEXTILE MILL PRODUCTS	52	5,414	45	35	77.8	5,359	4,241	79.1
223	Broad Woven Fabric Mills, Wool	6	1,332	5	5	100.0	1,331	1,331	100.0
224	Narrow Fabrics and Other Smallwares Mills: Cotton, Wool, Silk, and Man-Made Fiber	10	1,206	10	7	70.0	1,206	923	76.5
225	Knitting Mills	12	960	12	10	83.3	960	884	92.1
23	APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS	48	2,771	43	37	86.0	2,735	2,505	91.6
233	Women's, Misses' and Juniors' Outerwear	23	1,915	20	16	80.0	1,895	1,691	89.2
26	PAPER AND ALLIED PRODUCTS	53	6,366	45	32	71.1	6,338	4,162	65.7
262	Paper Mills, Except Building Paper Mills	16	3,266	13	11	84.6	3,275	3,069	93.7
27	PRINTING, PUBLISHING, AND ALLIED INDUSTRIES	233	6,177	162	124	76.5	5,974	5,338	89.4

271	Newspapers: Publishing, Publishing and Printing	48	1,650	40	27	67.5	1,595	1,360	85.3
275	Commercial Printing	108	2,351	66	54	81.8	2,251	2,128	94.5
30	RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS	75	11,043	40	32	80.0	10,266	8,154	79.4
302	Rubber and Plastics Footwear	5	1,965	5	4	80.0	1,965	1,879	95.6
306	Fabricated Rubber Products Not Elsewhere Classified	19	929	11	10	90.9	928	905	97.5
307	Miscellaneous Plastics Products	58	8,149	24	18	75.0	7,373	5,370	72.8
31	LEATHER AND LEATHER PRODUCTS	78	10,636	58	37	63.8	10,064	7,254	72.1
314	Footwear, Except Rubber	50	8,987	32	23	71.9	8,417	6,104	72.5

APPENDIX

All OES surveys provide for the allocation of occupations reported into seven major categories. Specifically these occupational categories are as follows:

10000 Managers and Officers:

Includes persons concerned with managerial functions common to many types of organization as well as occupations which require a knowledge of the management and operations of the given organizations. Typical examples are: Corporate Officers; Plant Managers; Branch Managers; District Managers; Production Superintendents; General Superintendents; and Managers of such departments as budget, purchasing, sales and distribution, advertising, public relations, personnel and training, etc.

20000 Professional Occupations:

Includes persons concerned with the theoretical or practical aspects of such fields as science, engineering, technical work, art education, medicine, law and business relations. Most of these occupations require substantial educational preparation, usually at the university level. Typical examples are: Architects; Engineers (including Sales Engineers); Metallurgists; Physicists; Mathematicians; Statisticians; Biologists; Economists; Accountants and Auditors; Purchasing Agents; Public Relations Practitioner; Personnel and Training Specialists (other than departmental managers); Lawyers; Physicians and Surgeons; Registered Nurses; Editors and Writers.

30000 Technical Occupations:

Includes all persons actually engaged in technical work utilizing theoretical knowledge of fundamental scientific, engineering, mathematical, computer programming or draft design principles comparable to those acquired through study at technical institutes, junior colleges or other formal post high school training less extensive than a four year college course, or through equivalent on-the-job training or experience.

40000 Service Occupations:

Includes those workers in occupations concerned with the performance of services for persons that require either direct contact or close association with the individual; occupations concerned with the protection of individuals or of public or private property; occupations related to the cleaning of the interior and equipment of buildings, offices, stores, and similar places.

50000 Production Occupations:

Includes all skilled, semiskilled, and unskilled workers performing machine and manual tasks involving maintenance, construction, repair, material handling and production.

60000 Clerical Occupations:

Includes clerical personnel whose work involves preparing, transcribing, transferring, systematizing and preserving communications and records; collating accounts; distributing information. Also includes clerical workers involved in planning, coordinating or expediting production and the flow of work and workers involved in the clerical aspects of receiving, storing, issuing or shipping of materials, merchandise, supplies, or equipment.

70000 Sales Occupations:

Includes persons concerned wholly or primarily with selling when knowledge of the goods or services sold is required. Excludes Sales Engineers (see Professional and Technical Workers) and Cashiers (see Clerical Workers).

Explanation of Footnotes:

1/ Employment estimate represents covered employment adjusted for additional current information. Data entries were not rounded in order to preserve their analytic value. However, they should not be construed as being absolute but rather as relative values.

2/ Relative errors apply equally to estimated employment and the present distribution. Please refer to technical notes for an explanation of relative error.

N. A. Not applicable